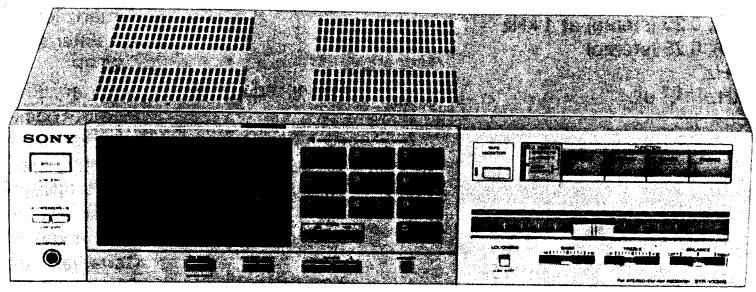
# STR-VX300

5352

# SERVICE MANUAL

*US Model*




## SPECIFICATIONS

**Amplifier section**

Dynamic headroom 1.4 dB ('78 IHF)
Harmonic distortion Less than 0.03% at rated output (8 ohms)
Intermodulation (IM) distortion (60 Hz : 7 kHz = 4 :1)
Less than 0.03% at rated output (8 ohms)
Frequency response PHONO : RIAA equalization curve ±0.5 dB
CD/AUX, TAPE, VIDEO -1, -2 :
10 Hz - 70 kHz $^{+0}_{-1}$ dB
Residual noise Less than 200 μV (8 ohms, network A)
Damping factor 35 (8 ohms, 1 kHz)
Inputs

| | Sensitivity | Impedance | S/N (weighting network, input level) |
|---|---|---|---|
| PHONO | 2.5 mV | 50 kohms | 74 dB<br>74 dB*<br>(A, 2.5 mV) |
| CD/AUX<br>TAPE<br>VIDEO -1, -2 | 150 mV | 50 kohms | 96 dB<br>79 dB*<br>(A, 150 mV) |

* '78 IHF

Outputs REC OUT, VIDEO OUT :
Impedance 10 kohms
SPEAKER A, B :
Accepts speakers of 8 to 16 ohms.
HEADPHONES :
Accepts low and high impedance headphones.
Tone controls BASS
±8 dB at 100 Hz
TREBLE
±8 dB at 10 kHz
Loudness (Att. 30 dB)
+8 dB at 100 Hz
+3 dB at 10 kHz

**Video section**

Inputs VIDEO 1, 2 : 1 Vp-p, 75 ohms unbalanced
Outputs VIDEO 1, MONITOR VIDEO OUT : 1 Vp-p, 75 ohms unbalanced

— Continued on page 2 —

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

## FM STEREO/FM-AM RECEIVER

SONY®

MICROFILM

AUD

5352

# STR-VX300

**FM tuner section**

| | |
|---|---|
| Tuning range | 87.5 MHz - 108 MHz |
| Antenna terminals | 300 ohms, balanced<br>75 ohms, unbalanced |
| Intermediate frequency | 10.7 MHz |
| Sensitivity at 50 dB quieting | 17.3 dBf, 4 μV (mono)<br>38.3 dBf, 45 μV (stereo) |
| Usable sensitivity | 11.2 dBf, 2 μV (IHF) |
| Signal-to-noise ratio | 80 dB (mono), 75 dB (stereo) |
| Harmonic distortion | 0.15% (mono), 0.25 (stereo) at 1 kHz |
| IM distortion | 0.15% (mono), 0.25 (stereo) |
| Separation | 45 dB at 1 kHz |
| Frequency response | 30 Hz - 15 kHz $^{+0.5}_{-1}$ dB |
| Selectivity | 60 dB at 400 kHz |
| Capture ratio | 1.0 dB |
| AM suppression ratio | 54 dB |
| Image response ratio | 45 dB |
| IF response ratio | 90 dB |
| Spurious response ratio | 70 dB |
| RF intermodulation | 65 dB (IHF) |
| Auto-tuning threshold | Approx. 30 dBf |

**AM tuner section**

| | |
|---|---|
| Tuning range | 530 - 1,610 kHz (with the AM channel plan selector set at 10 kHz)<br>522 - 1,602 kHz (with the AM channel plan selector set at 9 kHz) |
| Antenna | Ferrite-bar antenna<br>External antenna terminal |
| Intermediate frequency | 450 kHz |
| Usable sensitivity | 50 dB/m, ferrite-bar antenna (at 1,000 kHz)<br>100 μV, external antenna (at 1,000 kHz) |
| Signal-to-noise ratio | 54 dB (at 50 mV/m) |
| Harmonic distortion | 0.3% (at 50 mV/m, 400 Hz) |
| Selectivity | 40 dB (10 kHz) |

**General**

| | |
|---|---|
| System | Tuner section : Super heterodyne PLL quartz-locked digital synthesizer system<br>Amplifier section : Quasicomplementary SEPP |
| Power requirements | 120 V ac, 60 Hz<br>Memory back-up power : 3 V dc, two batteries, size AA (IEC designation R6)<br>Battery life : approx. 1 year with Sony SUM-3(NS) New Super batteries (or Eveready Heavy Duty batteries No. 1215) |
| Power consumption | USA model : 80 watts<br>Canadian model : 120 watts |
| AC outlets | One switched (100 watts)<br>One unswitched (100 watts) |
| Dimensions | Approx. 430 × 105 × 305 mm (w/h/d)<br>(17 × 4 1/4 × 12 1/8 inches)<br>including projecting parts and controls |
| Weight | Approx. 5.9 kg (13 lbs) net<br>Approx. 7.2 kg (15 lbs 14 oz) in shipping carton |

## FEATURES

The STR-VX300 is a combined receiver and audio/video control center. Its Direct Access Tuning system makes tuning easier than ever. The receiver employs a quartz-lock digital synthesizer in its state-of-the-art tuner section and a medium-high power output amplifier section which can be used in your home audio-video system.

- Phono amplifier stage, which employs an IC, is carefully designed to improve dynamic range and signal-to-noise ratio.
- The quartz-lock digital synthesizer system with a sophisticated Phase Locked Loop (PLL) circuit allows extremely precise tuning of FM and AM stations with an electronic digital readout on the frequency display.

A new IC recently developed by Sony allows a high comparison frequency thus eliminating the tendency for a low comparison frequency, which had been previously generally employed, to slip into the audio range and degrade the signal-to-noise ratio.

- Video tapes can be copied from the video cassette recorder connected to the VIDEO 2 jacks to the video cassette recorder connected to the VIDEO 1 jacks. While video tapes are being copied, other program sources can be enjoyed.
- When copying video tapes, sound can be added to the video tape from another program source (Compact Disc, cassette tape, record, etc.).
- Five methods of tuning are available :

Direct access tuning : FM or AM stations can be directly tuned in by inputting the station frequency with the DIRECT ACCESS TUNING buttons.

Automatic tuning : the FM band is scanned automatically until a signal is received.

Manual tuning : AM tuning can be accomplished either by changing the frequency display reading step by step or slowly to monitor the frequency.

Memory preset tuning : a desired memorized station can be instantly received by pressing the PRESET TUNING button.

Memory scan tuning : the FM or AM stations memorized in the PRESET TUNING buttons are scanned to quickly locate the desired station.

- The memorized stations are retained in memory by two backup batteries when the power is turned off. These back-up batteries also allow the last station tuned in to be held in memory.

## SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

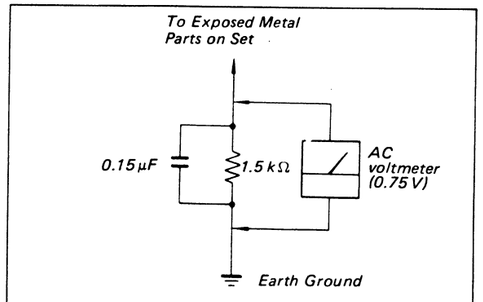


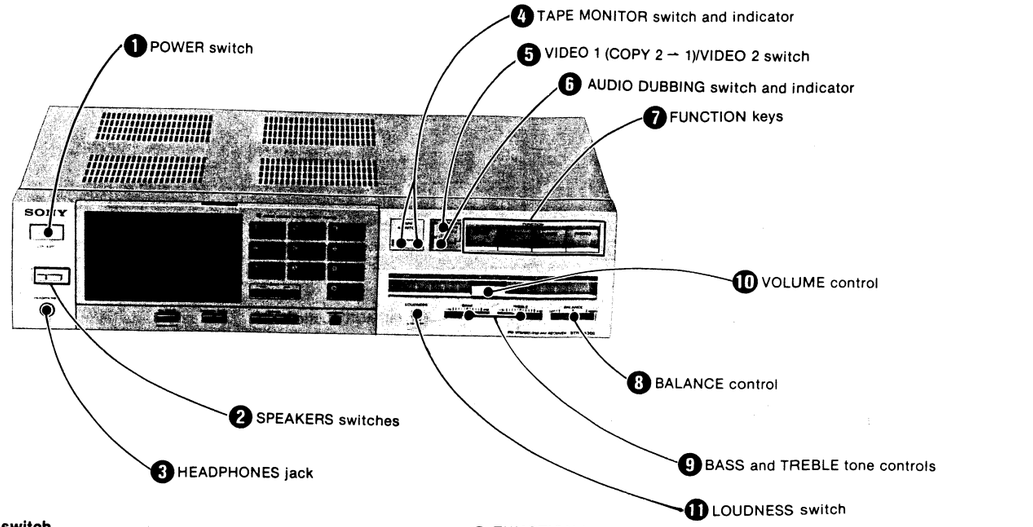

*Fig. A. Using an AC voltmeter to check AC leakage.*



## LOCATION AND FUNCTION OF CONTROLS

Before plugging in or attempting to operate this receiver,
it is suggested that you familiarize yourself with all its switches and the purpose of each.
Each number in the photo is keyed to the descriptive text.

**Amplifier section**


1 POWER switch
2 SPEAKERS switches
3 HEADPHONES jack
4 TAPE MONITOR switch and indicator
5 VIDEO 1 (COPY 2 → 1)/VIDEO 2 switch
6 AUDIO DUBBING switch and indicator
7 FUNCTION keys
8 BALANCE control
9 BASS and TREBLE tone controls
10 VOLUME control
11 LOUDNESS switch

**❶ POWER switch**
Depress to turn on the power. To turn the power off, press the switch again.

**❷ SPEAKERS switches**
To drive speaker system A, depress the A switch.
To drive speaker system B, depress the B switch.
To drive both speaker systems A and B, depress both A and B switches.

**❸ HEADPHONES jack**
Accepts any low or high impedance stereo headphones.
For headphone monitoring only, keep the SPEAKERS switches OFF.

**❹ TAPE MONITOR switch and indicator**
To listen to a taped program, depress the switch. The indicator will light up, indicating that a playback output from the tape recorder connected to the TAPE jacks can be heard.

**❺ VIDEO 1 (COPY 2 → 1)/VIDEO 2 switch**
When you want to play video cassettes, select the video cassette recorder to be used for playback.
If you have two video cassette recorders, copying from video cassette recorder 2 to video cassette recorder 1 is possible with this switch released.

**❻ AUDIO DUBBING switch and indicator**
Depress this switch to add the sound selected by the FUNCTION key or the TAPE MONITOR switch to the video tape while copying from video cassette recorder 2 to video cassette recorder 1. When this switch is set to ON, the indicator lights.

**❼ FUNCTION keys**
Press one of these keys to select a desired program source other than a taped program.
**PHONO:** For record programs (connected to PHONO inputs)
**TUNER:** To call back the last received station.
**CD/AUX:** For compact disc program or auxiliary programs (connected to CD/AUX inputs)
**VIDEO:** For video programs (connected to VIDEO inputs)

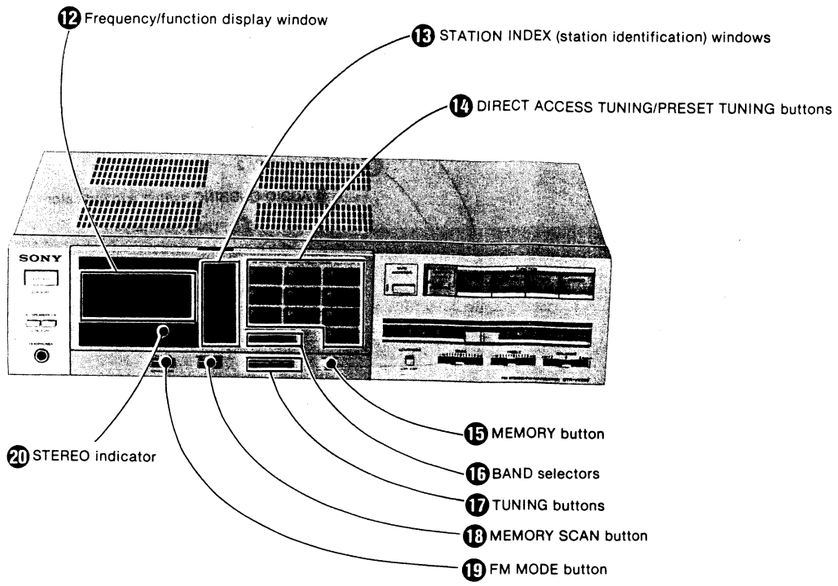
**❽ BALANCE control**
Governs the amount of sound coming from each paired speaker to get optimum stereo effect. When you slide the BALANCE control to the right, the left channel volume is decreased, and vice versa.

**❾ BASS and TREBLE tone controls**
These levers control the prominence of bass and treble response. Sliding to the right increases response; sliding to the left decreases it. Normally keep these at the "center" position.
Adjust the tone to the acoustic condition of the listening room or to your preference.

**❿ VOLUME control**
Regulates the overall sound level.
Slide to the right to increase the sound level and to the left to decrease it.
Be sure to lower the volume whenever you turn the receiver on or off.

**⓫ LOUDNESS switch**
Normally keep the switch released (⊓ OFF). When listening to program sources at a low VOLUME control setting, depress the switch (⊓ ON).
This loudness control compensates for the human ear's decreased response to very low frequency sound at low volume levels, and provides an apparently uniform response. The effect of this control gradually decreases as the volume is increased by the VOLUME control.

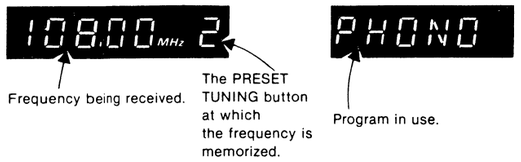
**Tuner section**


⑫ Frequency/function display window
⑬ STATION INDEX (station identification) windows
⑭ DIRECT ACCESS TUNING/PRESET TUNING buttons
⑮ MEMORY button
⑯ BAND selectors
⑰ TUNING buttons
⑱ MEMORY SCAN button
⑲ FM MODE button
⑳ STEREO indicator

**⑫ Frequency/function display window**

During broadcast reception

During reproduction of record source, video or auxiliary input source




**⑬ STATION INDEX (station identification) windows**
Station labels (supplied) identifying memorized stations can be placed in these windows.

**⑭ DIRECT ACCESS TUNING/PRESET TUNING buttons**
Press the button according to the following desired purposes. The pressed figures will be displayed on the frequency/function display window.
**Direct access tuning**
To tune in the frequency directly, press the BAND selector and the DIRECT ACCESS TUNING buttons.
**Memory tuning**
To call up a memorized station, press the appropriate button.

**⑮ MEMORY button**
Press to operate memory circuit. The "–" indicator will appear on the frequency/function display window for a few seconds indicating that the memory circuit is standing by.

**⑯ BAND selectors**
Press the appropriate selector to select the desired band: FM or AM.

**⑰ TUNING buttons**
Press either the "+" or "–" button to change the frequency: Press the "–" button to go to a lower frequency and the "+" button to go to a higher.
**During FM reception:**
Press to start the automatic frequency scanning.
**During AM reception:**
Press and keep the button depressed to change the frequency continuously in 10 kHz steps (or 9 kHz steps). To change the frequency rapidly, press and release the button immediately.

**⑱ MEMORY SCAN button**
Press for automatic scanning of the stations memorized on the PRESET TUNING button.

**⑲ FM MODE button**
During FM reception, when a stereo signal of sufficient strength is received, the receiver operates in the stereo mode. (The STEREO indicator will illuminate.)
When you want to tune in a very weak FM station, or when an FM program is too noisy, press this switch. (The STEREO indicator illumination will go out.) Press it again to return to the stereo mode. The mode will automatically return to the stereo mode when the frequency is changed.

**⑳ STEREO indicator**
This indicator will light when an FM stereo program of sufficient signal strength is tuned in.



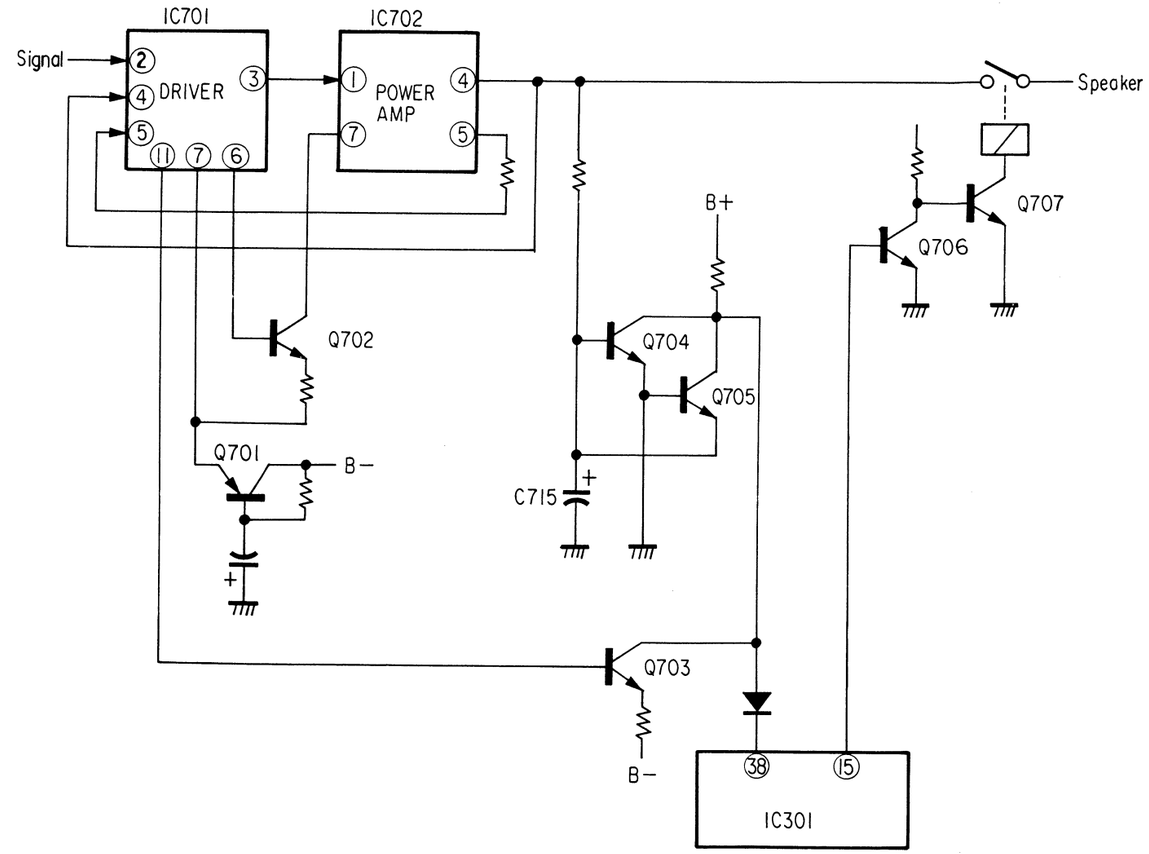
**During POWER ON**

Positive voltage is output momentarily from IC701 pin 7 and turns on Q701. When Q701 goes on, its collector potential becomes negative. Therefore Q702 goes on and IC702 pin 7 becomes negative. Therefore IC702 goes on and operates as a power amp.

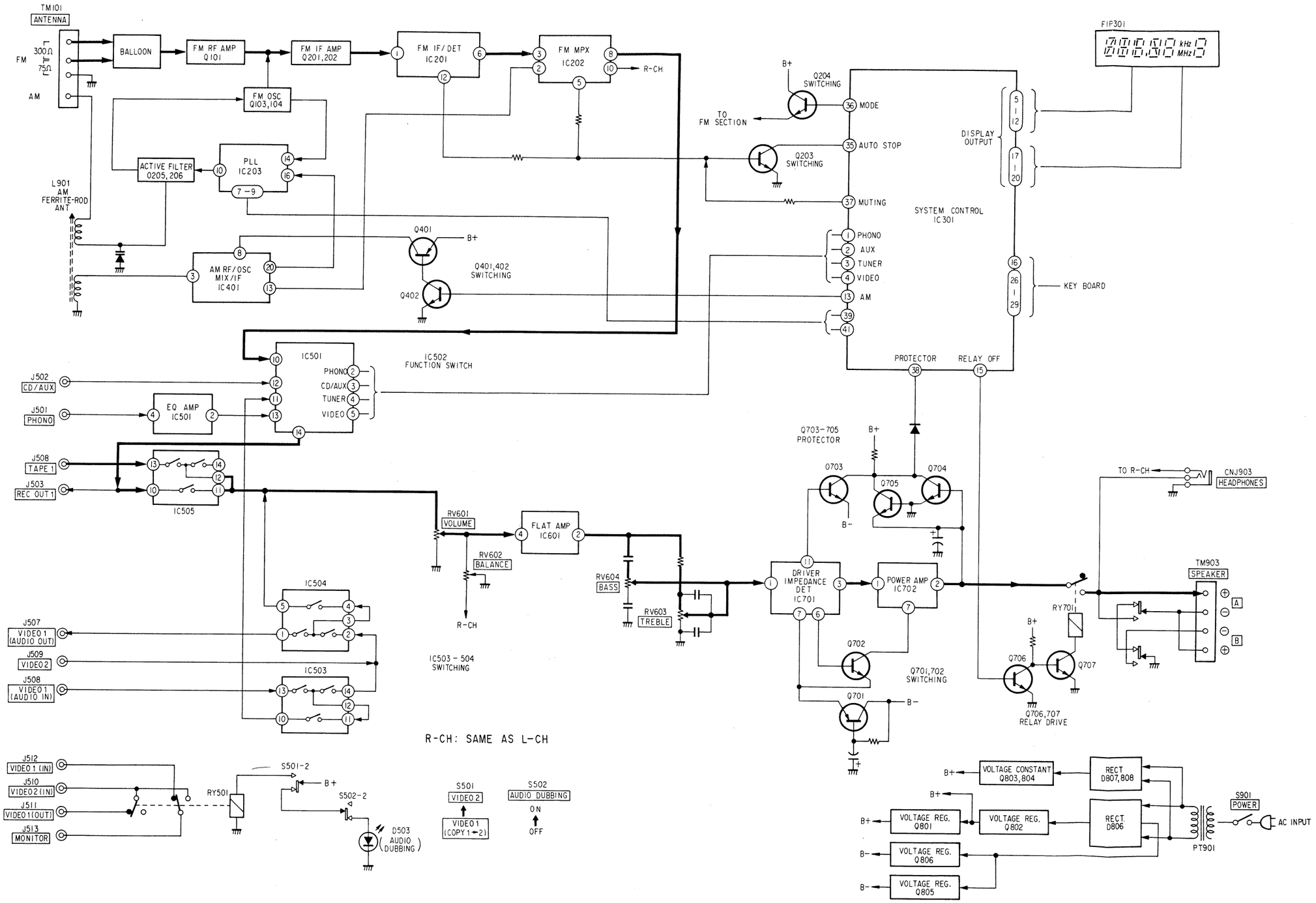
Protection Circuit
Excessive Current Detection
IC301 is a microcomputer and detects excessive current and DC element at pin 38.
When this pin goes low, pin 15 goes high and turns relay off. IC702 is a power amp, and pins 4, 5 output is fed back to IC701 pins 4, 5.

When excessive current flows, IC701 pin 11 is grounded, so Q703 turns on. Therefore IC301 pin 38 goes low, making pin 15 high, and Q706 goes on, Q707 goes off, and relay is turned off.

DC Element Detection
When DC element is output from IC704 pin 4, and (for positive element) C715 charging voltage goes over 0.6V, Q704 turns on. When Q704 turns on, IC301 pin 8 goes low. For negative element, negative voltage is applied to Q705 emitter, so Q705 goes on. This causes IC301 pin 8 to go low. Then pin 15 goes high, Q706 turns on Q707 goes off, and relay is turned off.

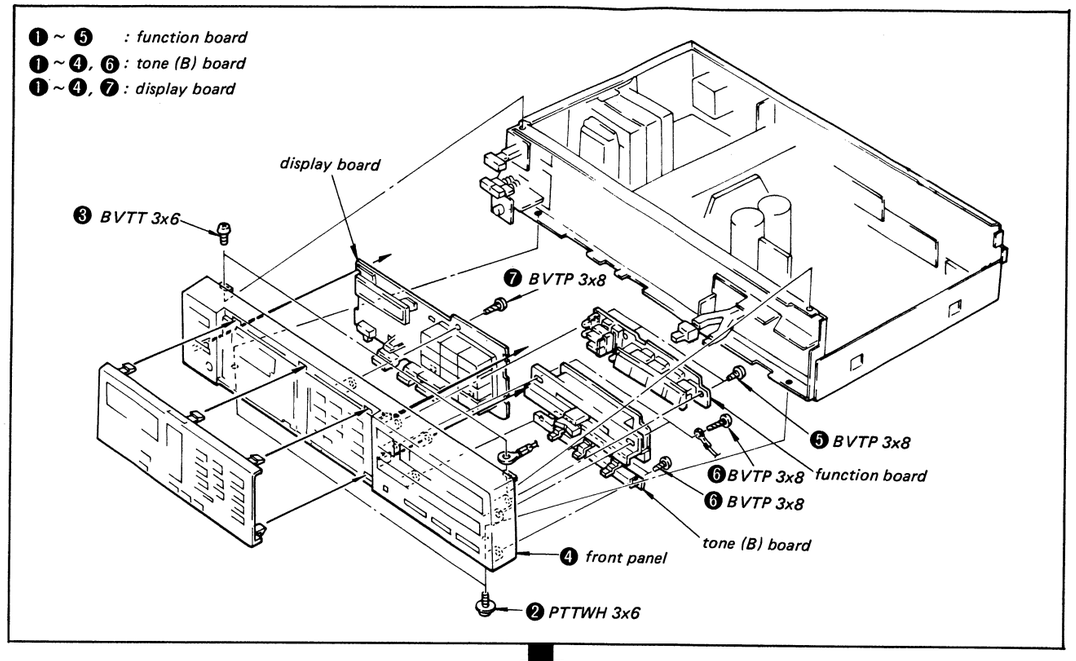


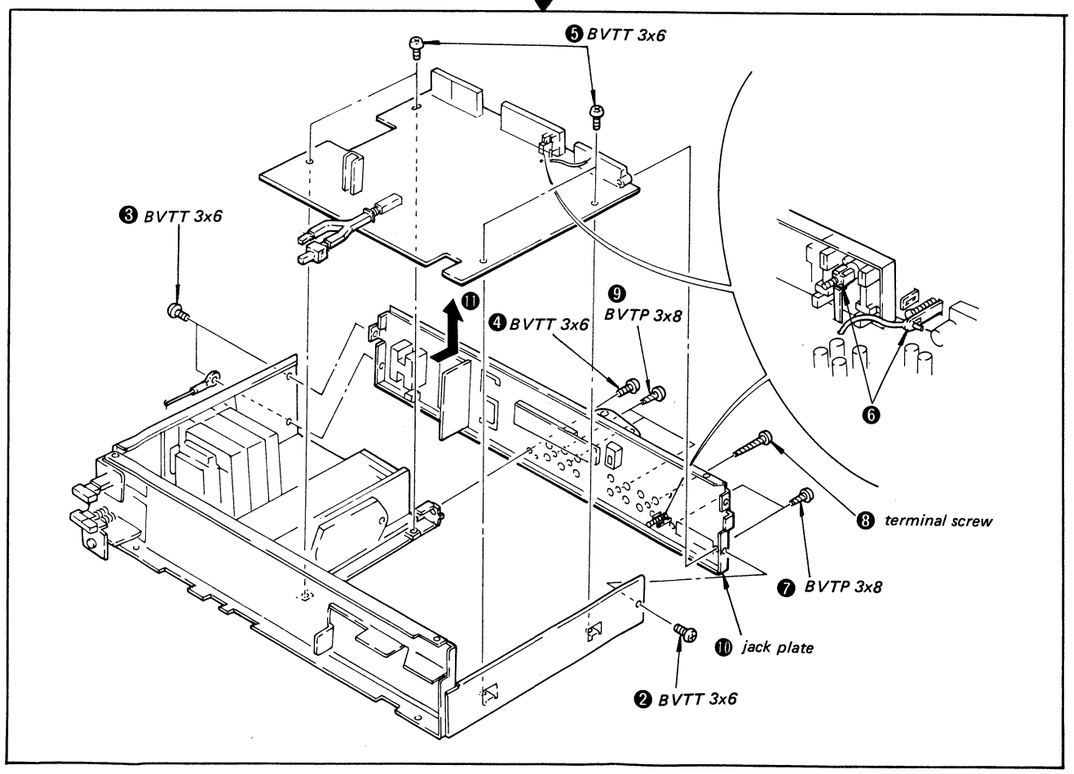
## 1. BLOCK DIAGRAMS



# SECTION 2
# DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.





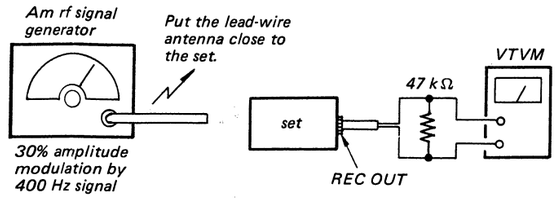

# SECTION 3
# ADJUSTMENTS

**AM SECTION**

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

## AM TRACKING ADJUSTMENT

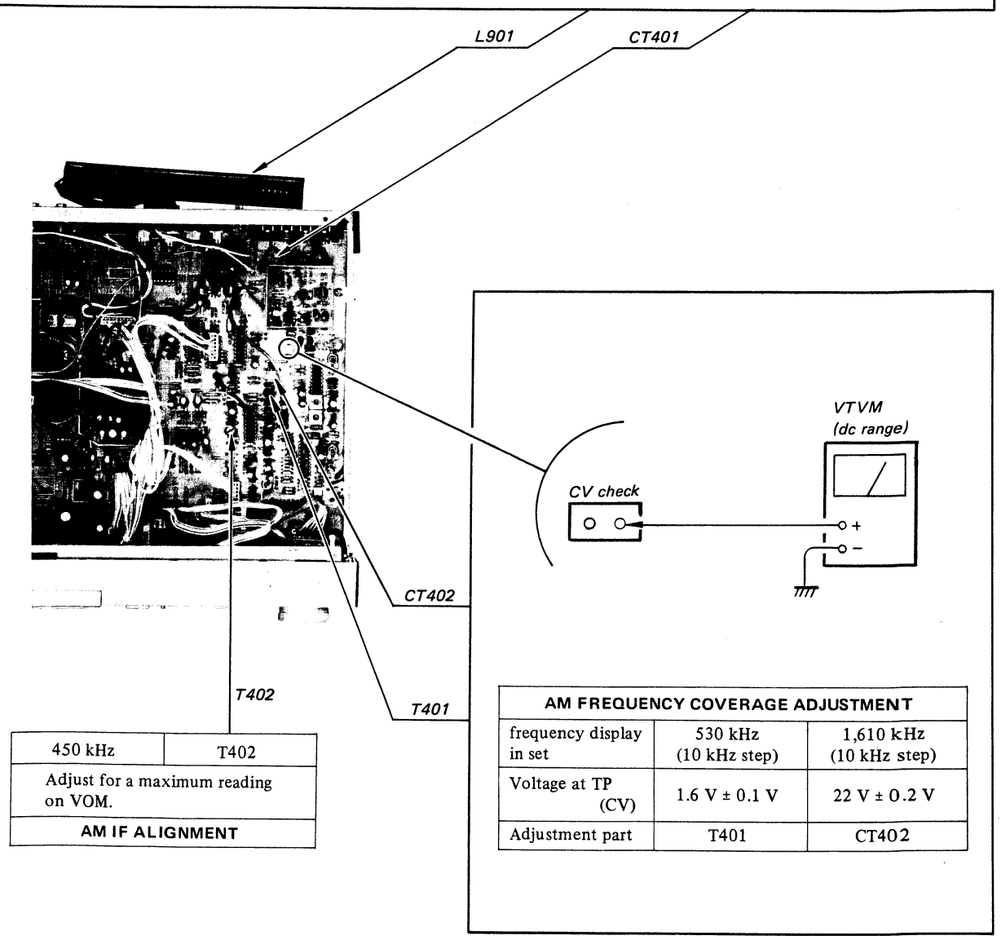
**Setting:**




**Procedure:**

1. Tune the set to the SG signal.
2. Adjust for a maximum reading on VTVM.

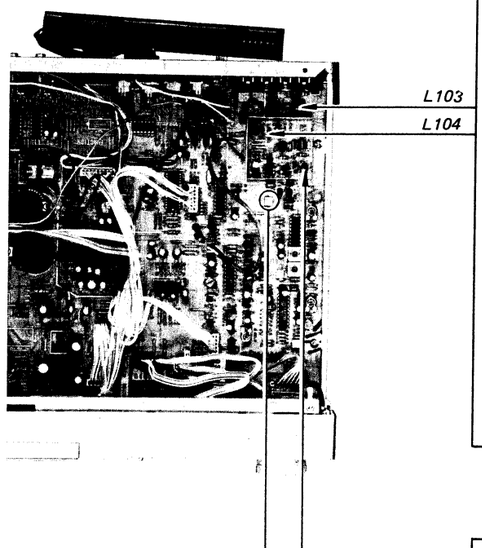
| | SG and set frequency | Adjustment parts | Reading on VTVM |
|---|---|---|---|
| 1. | 600 kHz | core of L901 | Maximum |
| 2. | 1,400 kHz | CT401 | |




| 450 kHz | T402 |
|---|---|
| Adjust for a maximum reading on VOM. | |
| AM IF ALIGNMENT | |

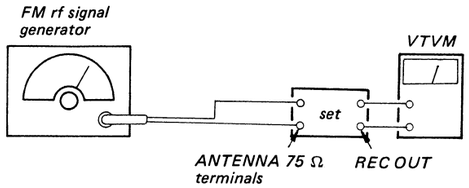
| AM FREQUENCY COVERAGE ADJUSTMENT | | |
|---|---|---|
| frequency display in set | 530 kHz (10 kHz step) | 1,610 kHz (10 kHz step) |
| Voltage at TP (CV) | 1.6 V ± 0.1 V | 22 V ± 0.2 V |
| Adjustment part | T401 | CT402 |

FM SECTION




## FM TRACKING ADJUSTMENT

**Setting:**

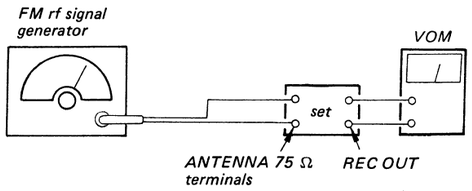



*Carrier frequency:* *98 MHz*
*Modulation:* *400 Hz, 75 kHz deviation (100%)*
*Output level:* *2.2~4μV (7~12 dB)*

1. Adjust L102, 104 for maximum reading on meter.

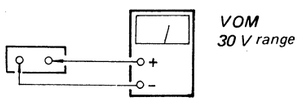
## FM FREQUENCY COVER ADJUSTMENT

**Setting:**

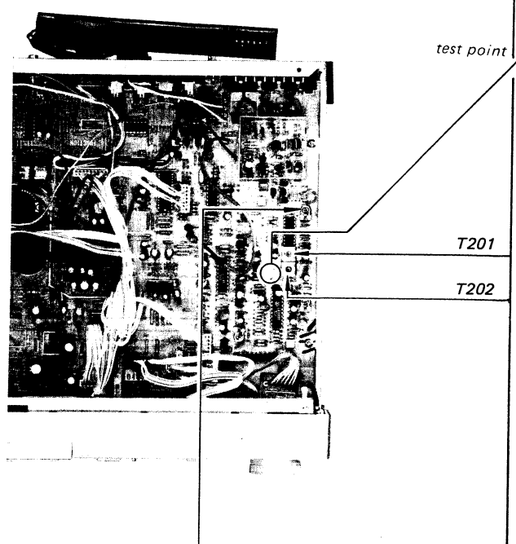



*Carrier frequency:* *108 MHz*
*Modulation:* *400 Hz, 75 kHz deviation (100%)*
*Output level:* *1mV (60 dB)*

1. Adjust L105 so that VOM reads 21V.
2. After the adjustment, set FM rf signal generator frequency to 87.5 MHz.
   Confirm that VOM reads 3.1V±0.5V.

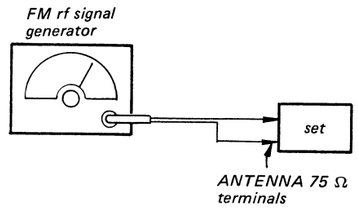





## Scan Stop Adjustment

**Setting:**



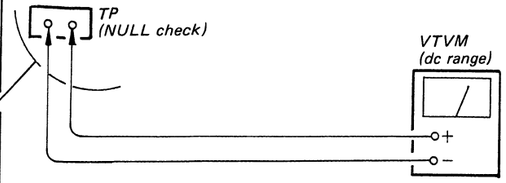

**Procedure:**

*Carrier frequency:* *98 MHz*
*Modulation:* *400 Hz, 75 kHz deviation (100%)*
*Output level:* *14μV (18 dB)*

1. Tune the set to 98 MHz by pressing the TUNING buttons.
2. Adjust RT201 so that the STEREO lamp goes on.

## FM Discriminator Alignment 1

**Setting:**



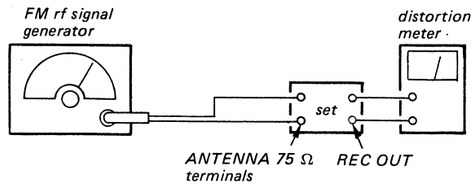

**Procedure:**

1. Tune the set in the strong station-signal.
2. Adjust the black core (primary-side) of T201 for 0 V reading on VOM.

**Note:** When replacing the ceramic filter, perform this alignment.

## FM Discriminator Alignment 2

**Setting:**




*Carrier frequency:* *98 MHz*
*Modulation:* *400 Hz, 75 kHz deviation (100%)*
*Output level:* *10μV (20 dB)*

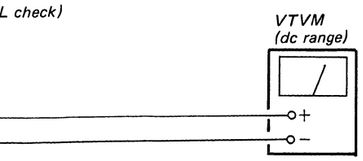
**Procedure:**

Adjust the white core (secondary side) of T202 for minimum distortion.

**Note:** When replacing the ceramic filter, perform this alignment.
Repeat the secondary-sice and primary-side alignments several times.

## ator Alignment 1

L check)

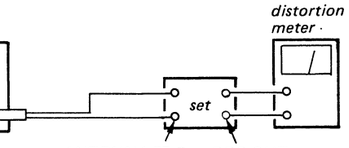



e set in the strong station-signal.

the black core (primary-side) of T201
reading on VOM.

placing the ceramic filter, perform this align-

## ator Alignment 2

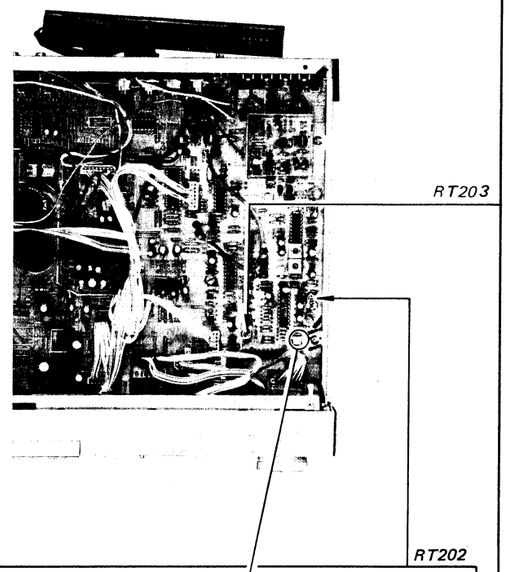



cy: 98 MHz
400 Hz, 75 kHz deviation
(100%)
10μV (20 dB)

he white core (secondary side) of T202
distortion.

placing the ceramic filter, perform this align-

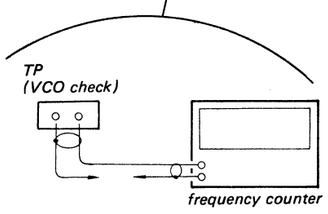
he secondary-sice and primary-side alignments
mes.

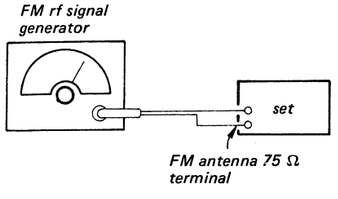



### VCO Adjustment

**A) Regular Method**

**Procedure:**



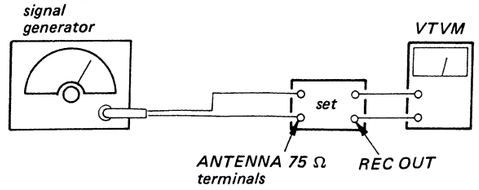




*Carrier frequency:* 98 MHz
*Modulation:* no modulation
*Output level:* 1 mV (60 dB)

1. Tune the set to 98 MHz.
2. Adjust RT202 for 19 kHz ± 20 Hz on the counter.

### FM Stereo Separation Adjustment

**Procedures:**




*Carrier frequency:* 98 MHz
*Output level:* 1 mV (60 dB)
*Modulation*
*Audio 400 Hz:* 33.75 kHz deviation (45%)
*Sub channel 38 kHz:* 33.75 kHz deviation (45%)
*Pilot signal 19 kHz:* 7.5 kHz deviation (10%)

| FM stereo signal generator output channel | VTVM connection | VTVM reading (dB) |
|---|---|---|
| L-CH | L-CH | Ⓐ |
| R-CH | L-CH | Ⓑ Adjust RT203 for minimum reading. |
| R-CH | R-CH | Ⓒ |
| L-CH | R-CH | Ⓓ Adjust RT203 for minimum reading. |

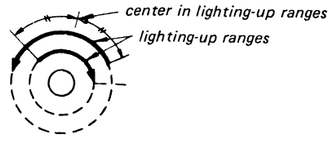
L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.

**B) Simple Method**

**Procedure:**

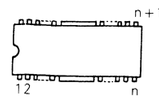
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT202 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RT202 at the center of the lighting-up range of both turns as shown below.



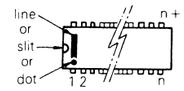



## • Semiconductor Lead Layouts

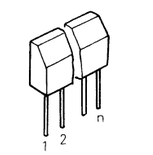
**CX770A**



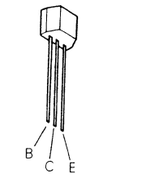

**CX778A**
**LA1235**
**LA1245**
**LA3390**
**LC7815H**



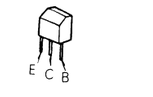

**M5218L**



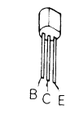

**2SA1048**
**2SC2458**



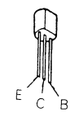

**2SB734**



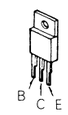

**2SC710-13**




**2SC1362**
**2SC1815-GR**

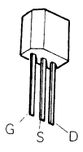



**2SD890**

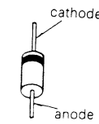



**2SK30A**

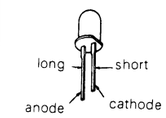
**2SK241-Y**



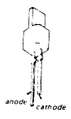

**1S953**
**1S1555**
**10E2**
**EQA01-16**
**EQA01-21**
**EQB01-16**
**EQB01-21**
**HZ7B2L**
**HZ27-1L**



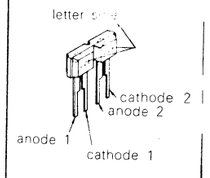

**GL5HD21**
**GL5PG523**




**GL9PR9**




**KV1226**



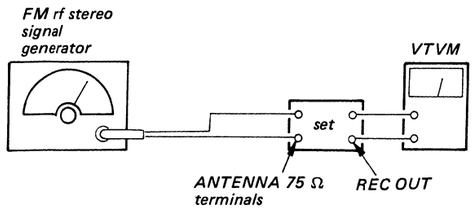

**MV**

**S4V**
**S4V**

(+)1

## FM Stereo Separation Adjustment

**Procedures:**




*Carrier frequency:* *98 MHz*
*Output level:* *1 mV (60 dB)*
*Modulation*
*Audio 400 Hz:* *33.75 kHz deviation (45%)*
*Sub channel 38 kHz:* *33.75 kHz deviation (45%)*
*Pilot signal 19 kHz:* *7.5 kHz deviation (10%)*

RT203

| FM stereo signal generator output channel | VTVM connection | VTVM reading (dB) |
|---|---|---|
| L-CH | L-CH | Ⓐ |
| R-CH | L-CH | Ⓑ Adjust RT203 for minimum reading. |
| R-CH | R-CH | Ⓒ |
| L-CH | R-CH | Ⓓ Adjust RT203 for minimum reading. |

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

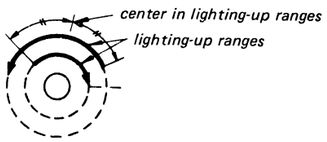
The separations of both channels should be equal.

**B) Simple Method**

**Procedure:**

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT202 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RT202 at the center of the lighting-up range of both turns as shown below.

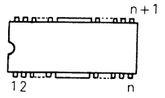
RT202



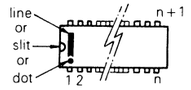



## • Semiconductor Lead Layouts

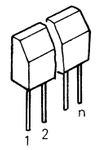
**CX770A**




**CX778A**
**LA1235**
**LA1245**
**LA3390**
**LC7815H**




**M5218L**

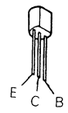



**2SA1048**
**2SC2458**

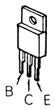
**2SB734**

**2SC710-13**

**2SC1362**
**2SC1815-GR**

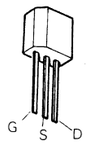



**2SD890**

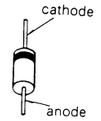



**2SK30A**

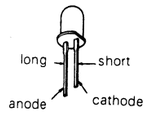
**2SK241-Y**



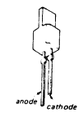

**1S953**
**1S1555**
**10E2**
**EQA01-16**
**EQA01-21**
**EQB01-16**
**EQB01-21**
**HZ7B2L**
**HZ27-1L**



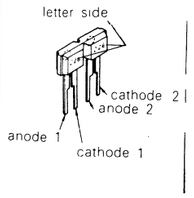

**GL5HD21**
**GL5PG523**



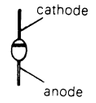

**GL9PR9**



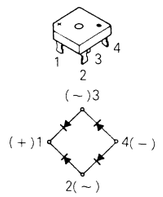

**KV1226**




**MV12N**




**S4VB20**
**S4VB40**



# SECTION 4
# DIAGRAMS

## 4-1. SCHEMATIC DIAGRAM

**Note:**

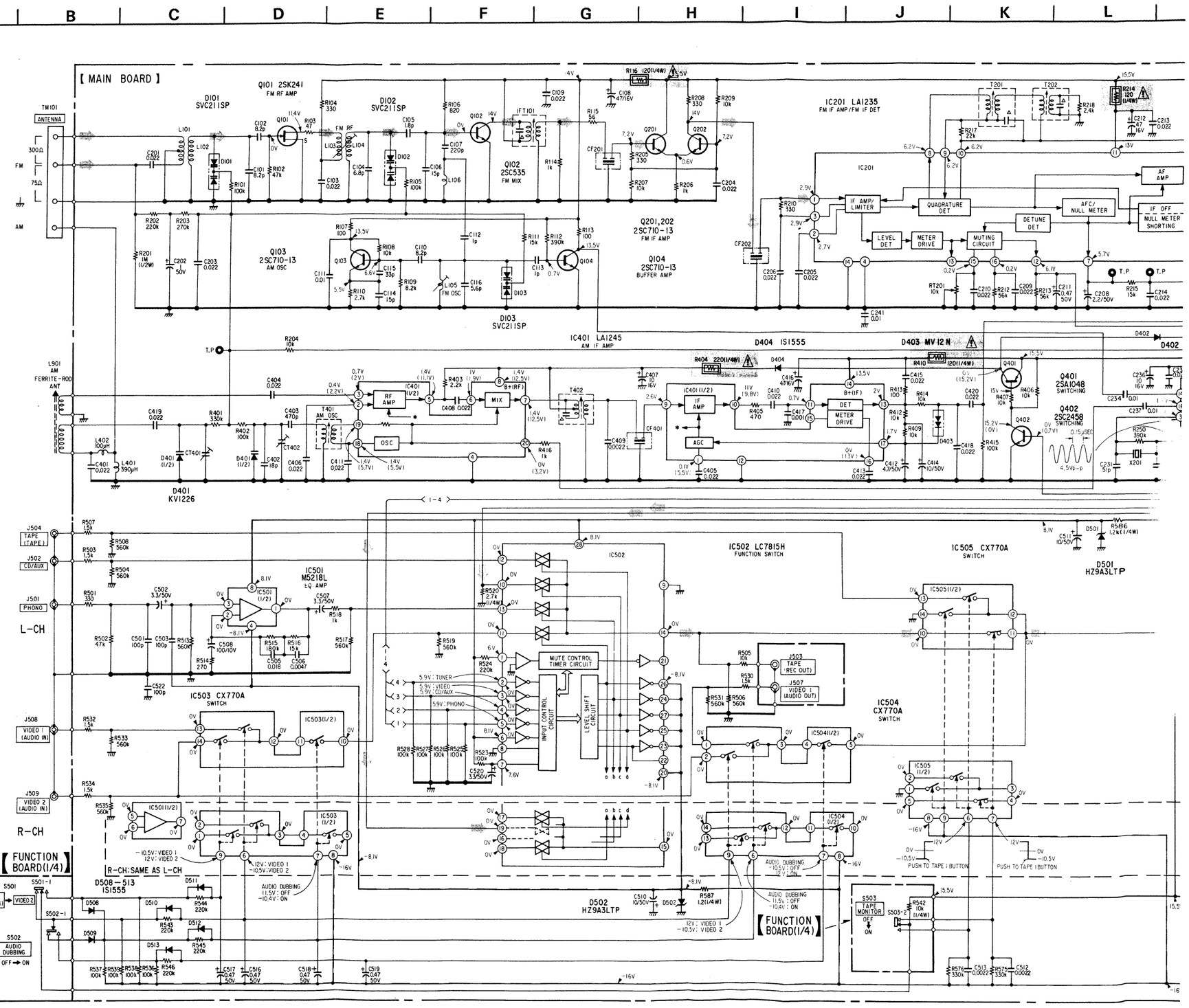
- Components for right channel have same values as for left channel. Reference numbers are coded from
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- ——: B+ bus.
- – – –: B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions. with a VOM (20 kΩ/V)
  ( ) :AM
- Voltage variations may be noted due to normal production tolerances.
- Switch

| Ref. No. | Switch | Position |
|---|---|---|
| S301 | 9 kHz/10 kHz | 9 kHz |
| S302~311 | PRESET SWITCH | OFF |
| S312 | MEMORY SCAN | OFF |
| S313 | MEMORY | OFF |
| S314, 315 | TUNING | OFF |
| S316 | FM | OFF |
| S317 | AM | OFF |
| S318 | FM MODE | OFF |
| S501 | VIDEO | OFF |
| S502 | AUDIO DUBBING | OFF |
| S503 | TAPE MONITOR | OFF |
| S505 | PHONO | OFF |
| S506 | AUX | OFF |
| S507 | TUNER | OFF |
| S508 | VIDEO | OFF |
| S601 | LOUDNESS | OFF |
| S701 | SPEAKER | A |
| S901 | POWER | OFF |

- : signal path

**Note: Voltages are measured with a VOM (50kΩ/V).**

**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**



G H I J K L M N O P Q R S T U V W

IC201 LA1235
FM IF AMP/FM IF DET

IC202 LA3390
MPX

Q201,202
2SC710-13
FM IF AMP

Q104
2SC710-13
BUFFER AMP

Q203
2SC2458
SWITCHING

Q204
2SC2458
SWITCHING

【FUNCTION BOARD(I/4)】

【DISPLAY BOARD(I/2)】

D311
(STEREO)

D311
GL9PR9

D703,704
1S1555

"BACK UP"
DRY BATT
SIZE "AA"
(IEC DESIGNATION R6)
2PCS, 3V

IC401 LA1245
AM IF AMP

D404 1S1555

D403 MV12N

D402 1S1555

D201 1S1555

D203
1S1555

D203
2.2V: LED OFF
(2.4V): LED ON

Q401
2SA1048
SWITCHING

Q402
2SC2458
SWITCHING

IC203 CX778A
PLL OSC SYNTHESIZER

D202 MV12N

Q205 2SC1362
L.P.F

Q206 2SK30A
BUFFER

IC502 LC7815H
FUNCTION SWITCH

IC505 CX770A
SWITCH

IC504
CX770A
SWITCH

D501
HZ9A3LTP

D502
HZ9A3LTP

【FUNCTION BOARD(I/4)】

【TONE/VOLUME BOARD(I/3)】

【TONE/VOLUME BOARD(I/3)】

【TONE/VOLUME BOARD(I/3)】

IC601 M5218L
FLAT AMP

D504 GL5PG523

D503 GL5HD21

【FUNCTION BOARD(I/4)】

【VIDEO BOARD】

D507
1S1555

IC701 STK3041
DRIVER IMPEDANCE DET

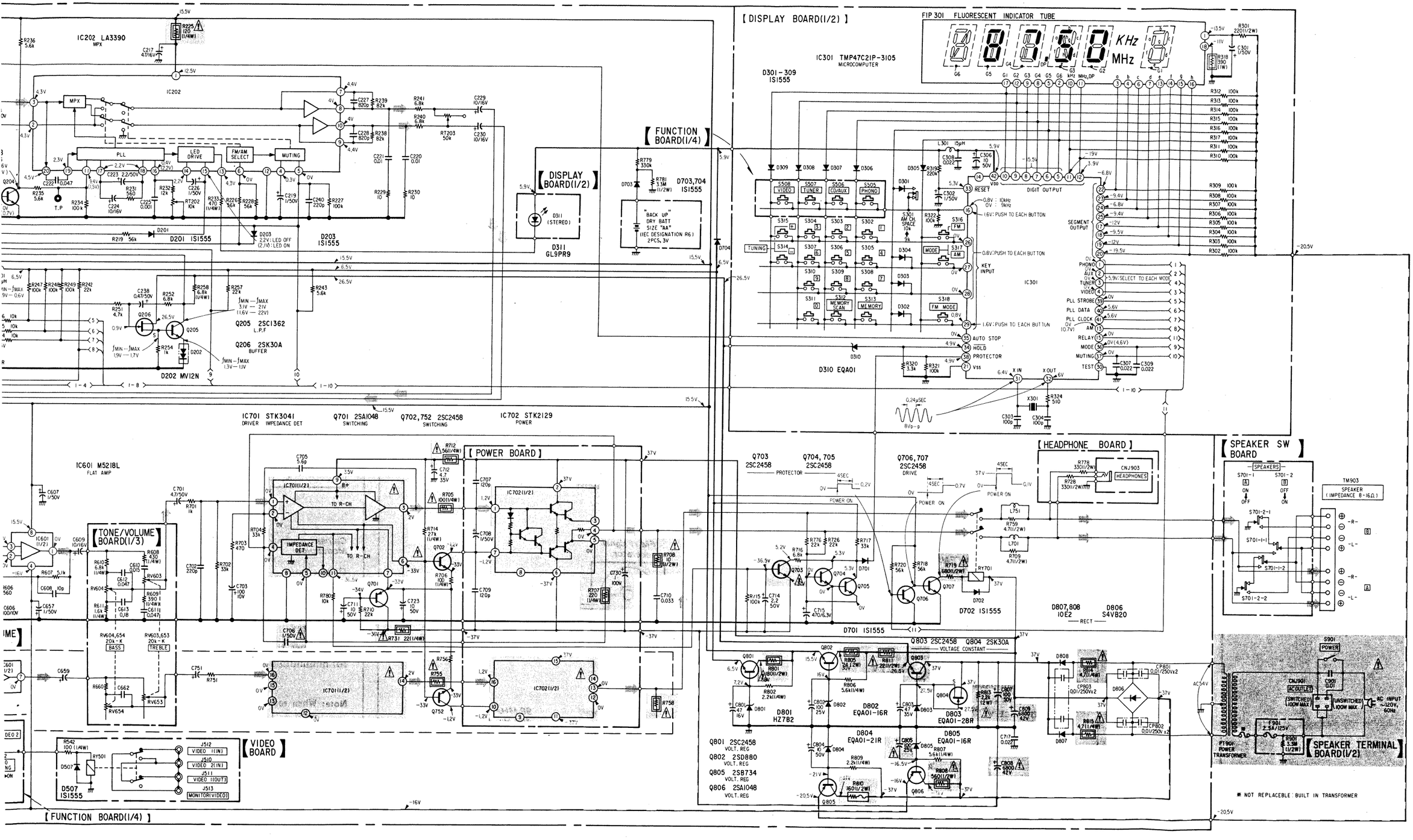
Q701 2SA1048
SWITCHING

Q702,752 2SC2458
SWITCHING

IC702 STK2129
POWER

【POWER BOARD】

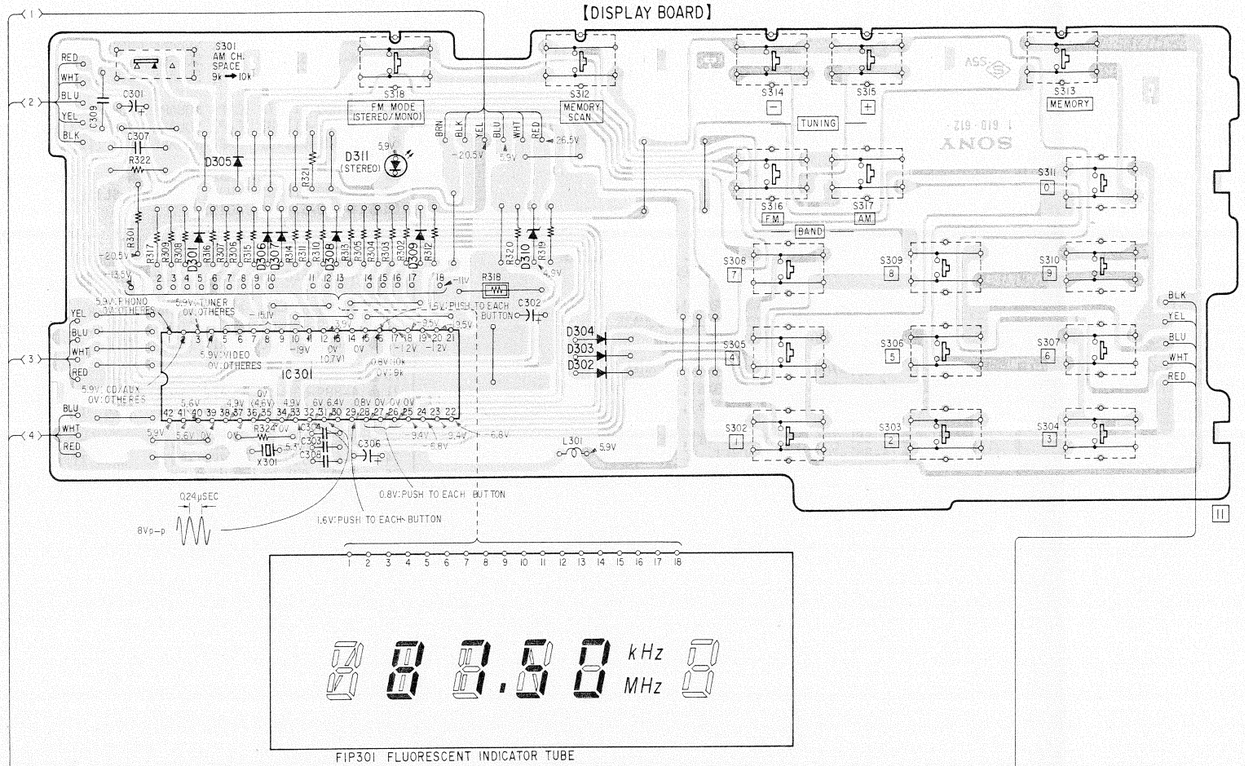
P Q R S T U V W X Y Z A1 B1 C1 D1 E1



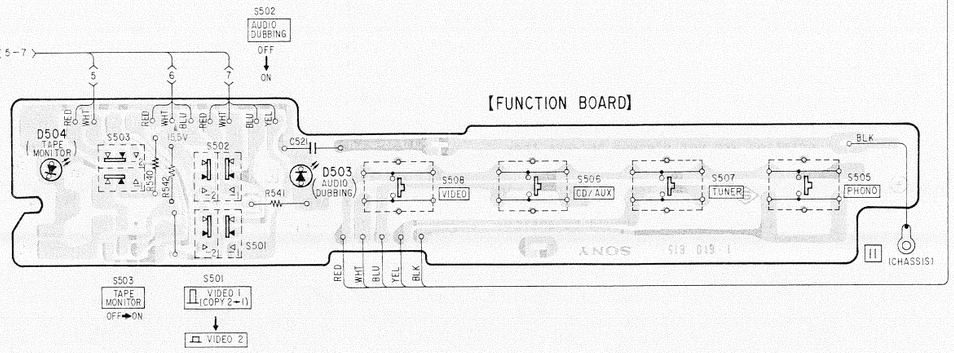
## 4-2. MOUNTING DIAGRAM

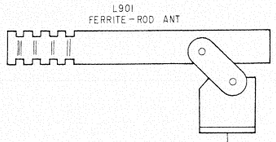
| IC | IC301 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D | 301 | 305<br>306,307 | 308 | 311 | 310 | 304<br>303<br>302 | | |

【DISPLAY BOARD】



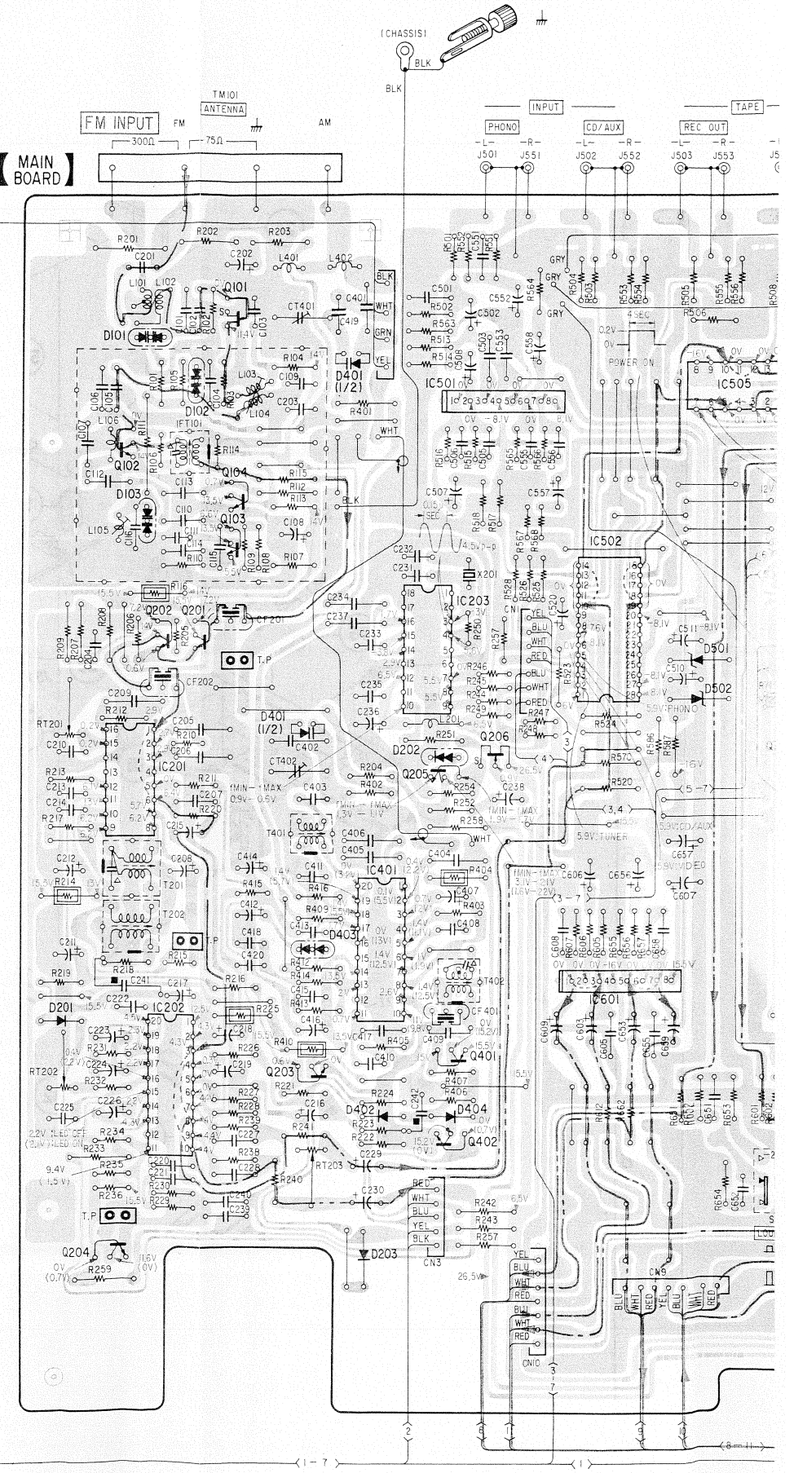

【FUNCTION BOARD】




| Q-IC | D |
|---|---|
| 101 | 101 |
| IC504,IC503 | 401(1/2) |
| IC505 | 102 |
| IC501 | |
| 102 | |
| 104 | 512 |
| 103 | 103,513,511,510<br>508 |
| | 702 |
| IC502 | 509 |
| 202,201 | |
| IC203 | 501 703 |
| 707 | |
| 706,704,705 | 502 |
| | 401(1/2) |
| 206 703 | 202 |
| 205 701 | |
| IC201 | |
| 752 | |
| 702 | |
| IC701 | |
| IC401 | 403 |
| IC601 | |
| | 201 |
| 401 805,806 | |
| IC202 203 | 806 |
| | 402,404 |
| | 701,801,804,805 |
| 402 801 | |
| 802 | |
| 204 | 704 |
| | 203 |
| | 802 |
| 803,804 | 803 808<br>807 |

【MAIN BOARD】



M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A1 | B1 | C1

【VIDEO BOARD】

【POWER BOARD】

【SPEAKER SW BOARD】

【HEADPHON BOARD】

【SPEAKER TERMINAL BOARD】

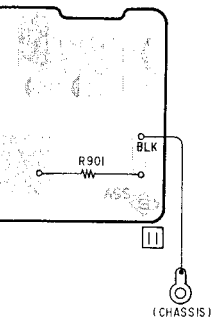
【TONE/VOLUME BOARD】

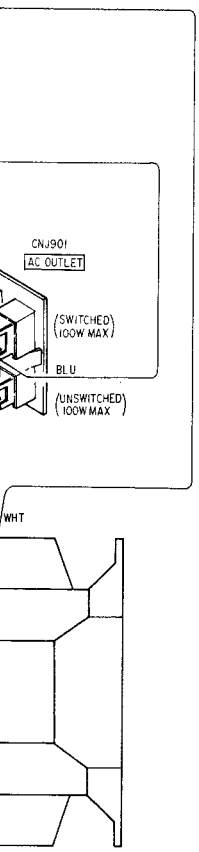
"BACK UP" DRY BATT (IEC DESIGNATION R6) 2PCS, 3V

B1 | C1 | D1 | E1

**Note:**

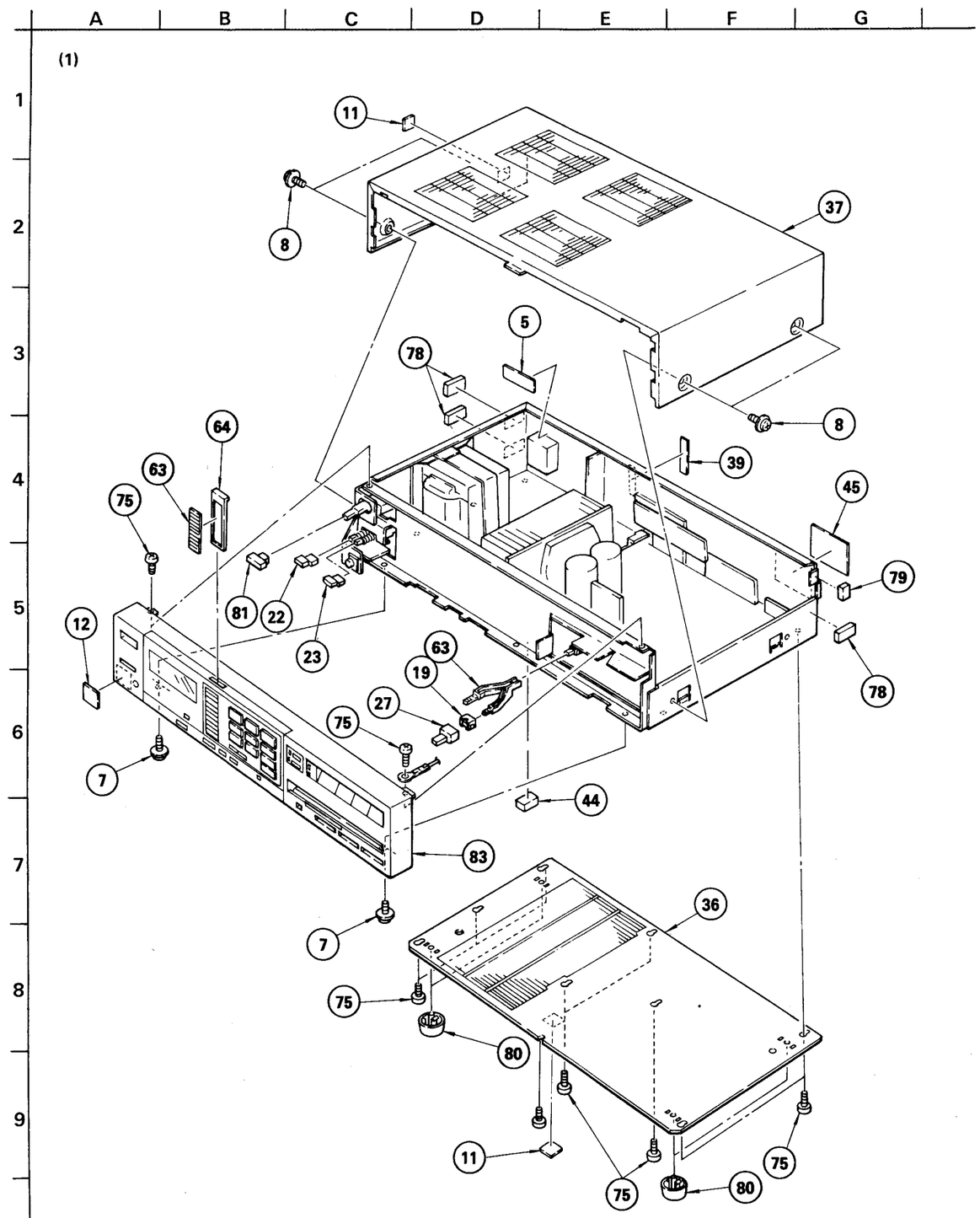
- [ ]← : indicates side identified with part number.
- Ⓕ : fusible resistor.
- ▒▒ : B + pattern
- ▬▶▬ : signal path
- ▬▪▪▶ : L-CH signal path
- ▬▪▪▶ : R-CH signal path



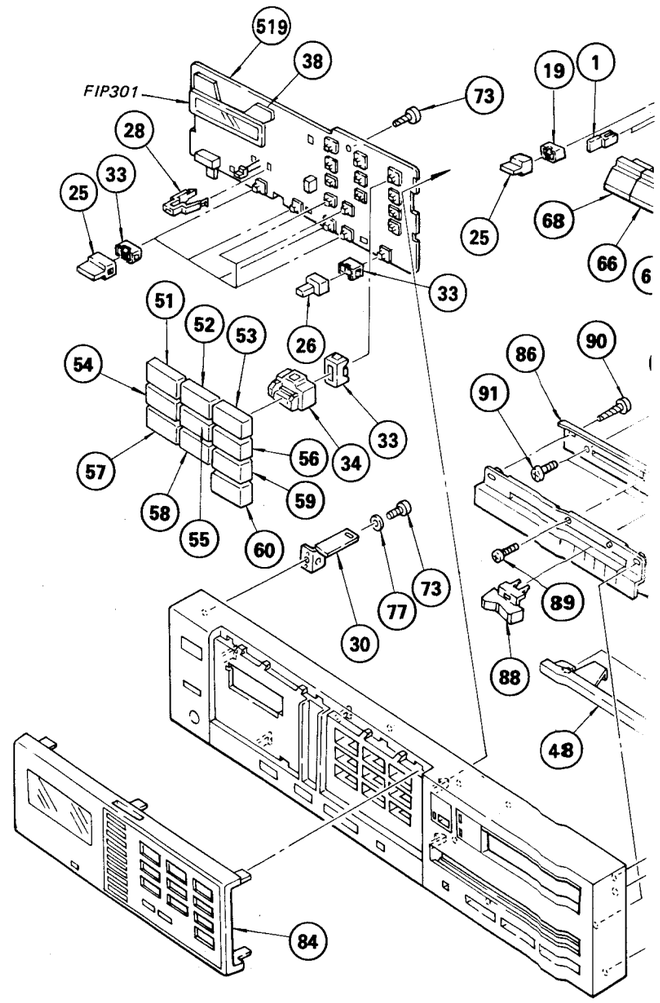



## SECTION 5
## EXPLODED VIEWS AND PARTS LIST

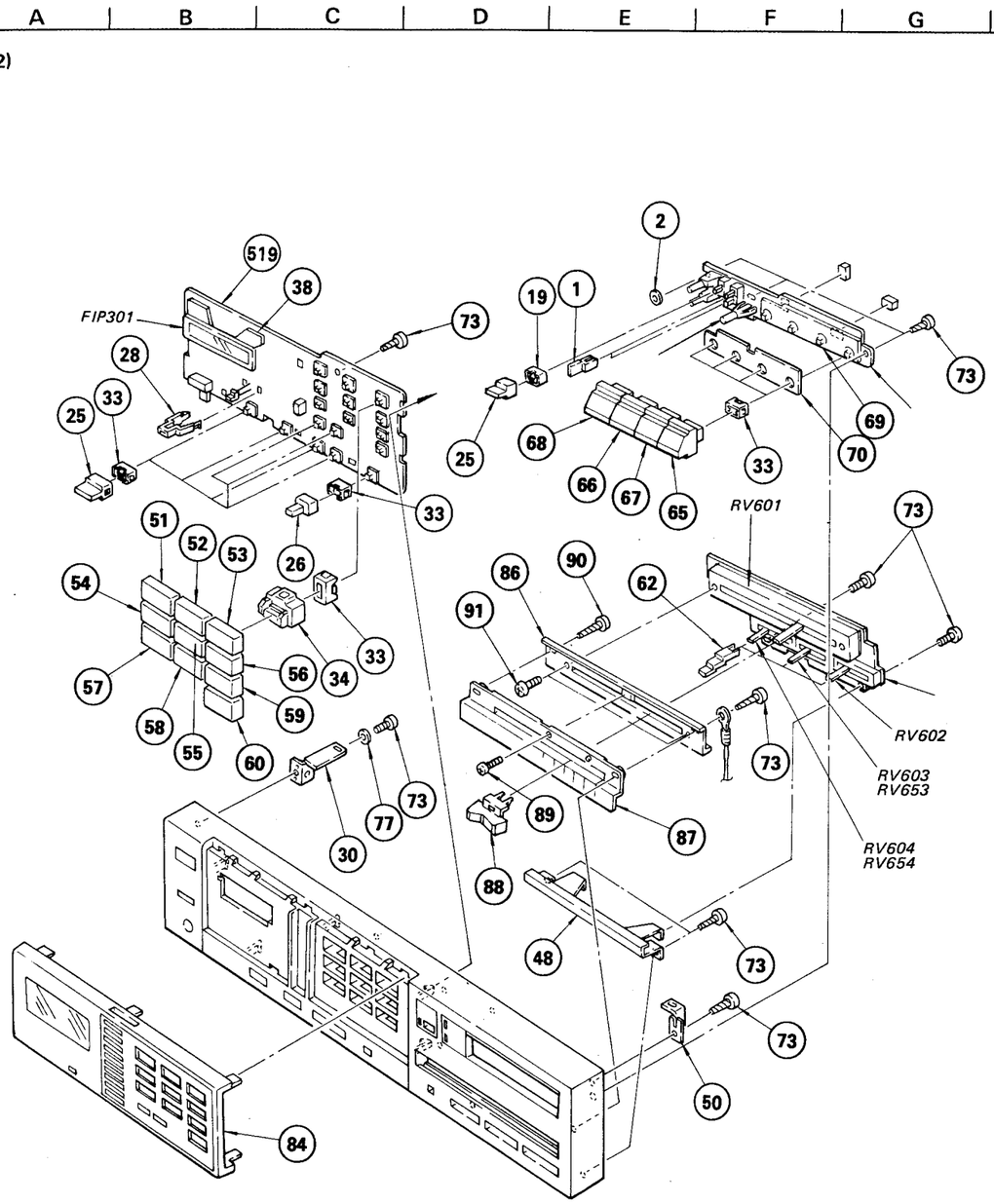
(1)




(2)



(2)


519
38
FIP301
73
28
33
25
19
1
2
68
66
67
65
69
70
RV601
RV602
RV603
RV653
RV604
RV654
51
52
53
54
26
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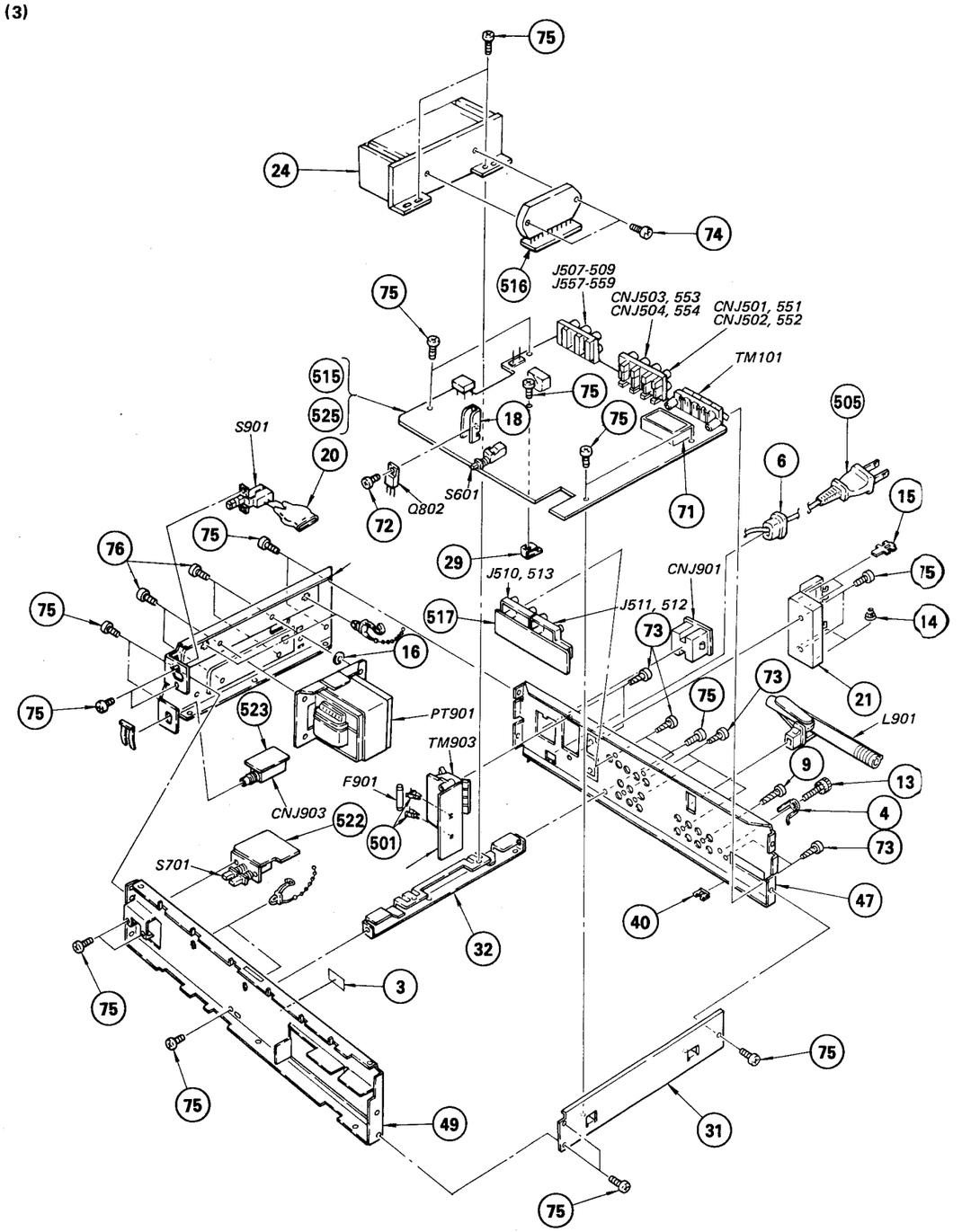
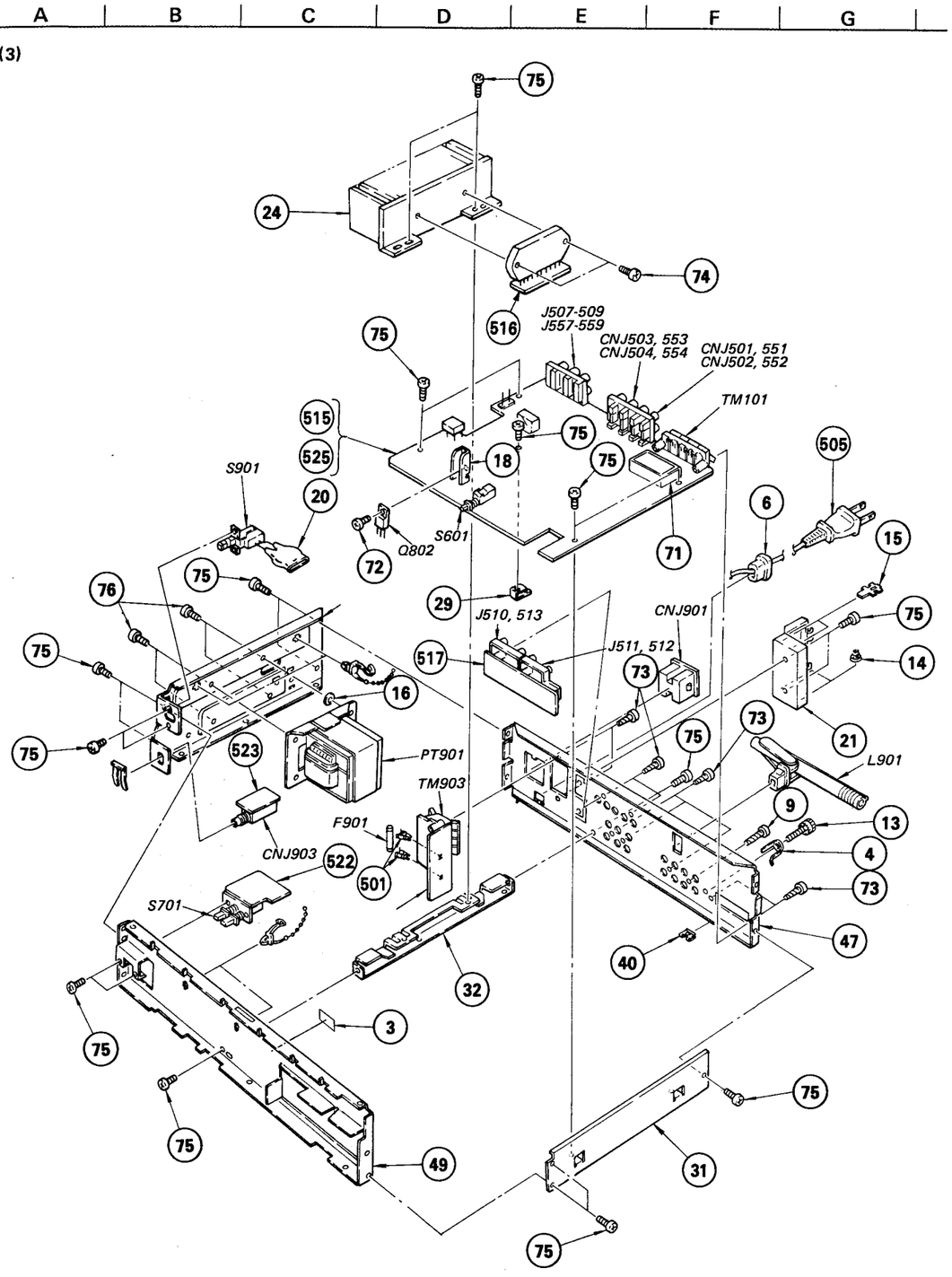
77
30
84
50



(3)


75
24
74
516
J507-509
J557-559
CNJ503, 553
CNJ504, 554
CNJ501, 551
CNJ502, 552
TM101
515
525
S901
20
18
S601
Q802
72
71
505
6
15
29
J510, 513
CNJ901
517
J511, 512
76
16
523
PT901
TM903
F901
CNJ903
522
501
S701
32
3
49
21
L901
9
13
4
40
47
31






GENERAL SECTION

| No. | Part No. | Description |
|---|---|---|
| 1 | 3-309-139-11 | KNOB (C) |
| 2 | 3-565-342-00 | WASHER (A) |
| 3 | 3-701-030-00 | LABEL, SERIAL NUMBER |
| 4 | 3-701-993-00 | SPACER, TERMINAL |
| 5 ♦ | 3-703-044-26 | LABEL, CAUTION |
| 6 | 3-703-244-00 | BUSHING, CORD |
| 7 | 3-703-249-01 | SCREW, S TIGHT, +PTTWH 3X6 |
| 8 | 3-703-354-11 | SCREW (OS), CASE, CLAW |
| 9 | 3-703-473-00 | SCREW, TERMINAL |
| 10 | ..... | |
| 11 ♦ | 3-703-680-00 | LABEL, CAUTION, SUB, NEW UL |
| 12 | 3-703-710-01 | STICKER, SONY SYMBOL (12) |
| 13 | 3-706-165-00 | SCREW |
| 14 | 3-883-424-00 | SPRING |
| 15 | 3-883-428-00 | PLATE, TERMINAL (POSITIVE) |
| 16 | 4-308-030-00 | WASHER |
| 17 | ..... | |
| 18 ♦ | 4-857-562-00 | HEAT SINK, TR |
| 19 | 4-864-307-00 | RING |
| 20 | 4-875-455-21 | COVER (DIA. 20), CAPACITOR |
| 21 | 4-875-530-00 | CASE, BATTERY |
| 22 | 4-876-722-01 | KNOB (4X10), SQUARE |
| 23 | 4-876-722-11 | KNOB (4X10), SQUARE |
| 24 ♦ | 4-881-415-00 | HEAT SINK (A) |
| 25 | 4-881-704-81 | KNOB (5X16), SQUARE |
| 26 | 4-881-705-01 | KNOB (5X6), SQUARE |
| 27 | 4-881-705-11 | KNOB (5X6), SQUARE |
| 28 ♦ | 4-881-706-00 | HOLDER (B), LED |
| 29 ♦ | 4-881-707-00 | BRACKET, PC BOARD |
| 30 ♦ | 4-881-708-00 | BRACKET (LEFT), PANEL |
| 31 ♦ | 4-881-721-00 | PLATE (RIGHT), SIDE |
| 32 ♦ | 4-881-722-00 | BRACKET, HEAT SINK |
| 33 | 4-881-725-00 | RING (TACT), FLEXIBLE |
| 34 | 4-881-728-00 | BASE, KNOB (12X25), SQUARE |
| 35 ♦ | 4-881-729-00 | PLATE (LEFT), SIDE |
| 36 ♦ | 4-881-730-00 | PLATE, BOTTOM |
| 37 | 4-881-736-00 | CASE |
| 38 ♦ | 4-881-744-00 | HOLDER, FL TUBE |
| 39 ♦ | 4-881-747-00 | LABEL, BATTERY |
| 40 ♦ | 4-881-752-00 | NUT, PLATE, SPECIAL |
| 41 | ..... | |
| 42 ♦ | 4-888-157-00 | HOLDER, LED |
| 43 | 4-888-159-31 | KNOB, SQUARE |
| 44 | 4-888-161-00 | CUSHION |
| 45 | 4-889-601-00 | LABEL, MODEL NUMBER (U) |

GENERAL SECTION

| No. | Part No. | Description |
|---|---|---|
| 46 | ..... | |
| 47 ♦ | 4-889-605-01 | PLATE, JACK |
| 48 ♦ | 4-889-621-00 | MASK (A), SLIDE |
| 49 ♦ | 4-889-623-00 | PANEL (B), SUB |
| 50 ♦ | 4-889-610-00 | BRACKET (R), PANEL |
| 51 | 4-889-611-01 | CAP, SQUARE KNOB (12X25), 1 |
| 52 | 4-889-611-11 | CAP, SQUARE KNOB (12X25), 2 |
| 53 | 4-889-611-21 | CAP, SQUARE KNOB (12X25), 3 |
| 54 | 4-889-611-31 | CAP, SQUARE KNOB (12X25), 4 |
| 55 | 4-889-611-41 | CAP, SQUARE KNOB (12X25), 5 |
| 56 | 4-889-611-51 | CAP, SQUARE KNOB (12X25), 6 |
| 57 | 4-889-611-61 | CAP, SQUARE KNOB (12X25), 7 |
| 58 | 4-889-611-71 | CAP, SQUARE KNOB (12X25), 8 |
| 59 | 4-889-611-81 | CAP, SQUARE KNOB (12X25), 9 |
| 60 | 4-889-611-91 | CAP, SQUARE KNOB (12X25), 0 |
| 61 | 4-889-612-01 | LABEL, STATION |
| 62 | 4-889-613-00 | KNOB, CONTROL, SLIDE |
| 63 ♦ | 4-889-614-00 | JOINT |
| 64 | 4-889-615-00 | HOLDER, STATION |
| 65 | 4-889-617-00 | KNOB, SQUARE, PHONO |
| 66 | 4-889-618-00 | KNOB, SQUARE, CD/AUX |
| 67 | 4-889-619-00 | KNOB, SQUARE, TUNER |
| 68 | 4-889-620-00 | KNOB, SQUARE, VIDEO |
| 69 ♦ | 4-889-626-00 | PLATE (B), SHIELD |
| 70 ♦ | 4-889-627-00 | INSULATOR |
| 71 ♦ | 4-889-630-00 | PLATE, SHIELD (A) |
| 72 | 7-685-645-71 | SCREW +BVTP 3X6 TYPE2 SLIT |
| 73 | 7-685-646-11 | SCREW +BVTP 3X8 TYPE2 N-S |
| 74 | 7-685-649-21 | SCREW +BVTP 3X14 TYPE2 SLIT |
| 75 | 7-685-871-01 | SCREW +BVTT 3X6 (S) |
| 76 | 7-685-881-01 | SCREW +BVTT 4X8 (S) |
| 77 | 7-688-003-01 | W 3, SMALL |
| 78 | 9-911-841-XX | SPACER |
| 79 | 9-911-843-XX | CUSHION, FLYWHEEL |
| 80 | X-4864-303-0 | FOOT ASSY |
| 81 | X-4875-108-0 | KNOB ASSY, POWER |
| 82 | 7-685-648-11 | SCREW +BVTP 3X12 TYPE 2 |
| 83 | X-4889-605-1 | PANEL ASSY |
| 84 | X-4889-604-1 | 10 KEY PANEL ASSY |
| 85 | 7-682-646-11 | +BVTT 3X6 |
| 86 ♦ | 4-881-711-00 | BRACKET, CONTROL |
| 87 | 4-881-712-00 | PLATE, ORNAMENTAL, CONTROL |
| 88 | 4-881-723-00 | KNOB, CONTROL, SLIDE |
| 89 | 7-621-284-00 | SCREW +P 2.6X4 |
| 90 | 7-685-647-11 | SCREW +BVTP 3X10 TYPE2 |
| 91 | 7-682-145-01 | SCREW +P 3X4 |

NOTE:
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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

## ACCESSORY & PACKING MATERIAL

| No. | Part No. | Description |
|---|---|---|
| 101 | 1-501-224-21 | ANTENNA, FEEDER |
| 102 | 3-701-630-00 | BAG, POLYETHYLENE |
| 103 | 3-703-390-01 | INSTRUCTION |
| 104 | 3-773-472-21 | MANUAL, INSTRUCTION |
| 105 | 3-795-683-21 | CARD, CONTROL |
| 106 | 4-858-078-00 | SHEET, PROTECTION |
| 107 | 4-881-738-00 | CUSHION, UPPER |
| 108 | 4-881-739-00 | CUSHION, LOWER |
| 109 | 4-889-624-00 | INDIVIDUAL CARTON |
| 110 | X-4889-601-0 | LABEL ASSY, STATION |

## ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---|---|---|
| 501 | 1-517-072-00 | LAMP HOLDER |
| 502 ♦ | ;1-535-115-00 | TERMINAL |
| 503 ♦ | ;1-535-116-00 | TERMINAL |
| 504 ♦ | ;1-535-117-00 | TERMINAL |
| 505 A | 1-551-506-XX | CORD, POWER |
| 506 ♦ | ;1-560-060-00 | PIN, CONNECTOR 2P |
| 507 ♦ | ;1-560-606-31 | PIN, CONNECTOR 7P |
| 508 ♦ | ;1-560-604-00 | PIN, CONNECTOR 5P |
| 509 ♦ | ;1-560-605-00 | PIN, CONNECTOR 6P |
| 510 ♦ | ;1-560-606-00 | PIN, CONNECTOR 7P |
| 511 ♦ | ;1-560-606-21 | PIN, CONNECTOR 7P |
| 512 ♦ | ;1-560-710-00 | PIN, CONNECTOR 9P |
| 513 ♦ | ;1-562-251-00 | SOCKET, CONNECTOR 6P |
| 514 | ..... | |
| 515 ♦ | ;1-610-608-00 | PC BOARD, MAIN |
| 516 ♦ | ;1-610-609-00 | PC BOARD, POWER |
| 517 ♦ | ;1-610-610-00 | PC BOARD, VIDEO |
| 518 ♦ | ;1-610-613-00 | PC BOARD, TONE/VOLUME |
| 519 ♦ | ;1-610-612-00 | PC BOARD, DISPLAY |
| 520 ♦ | ;1-610-614-00 | PC BOARD, TONE (B) |
| 521 ♦ | ;1-610-615-00 | PC BOARD, FUNCTION |
| 522 ♦ | ;1-610-616-00 | PC BOARD, SPEAKER SW |
| 523 ♦ | ;1-610-617-00 | PC BOARD, HEADPHONE |
| 524 ♦ | ;1-610-618-00 | PC BOARD, SPEAKER TERMINAL |
| 525 ♦ | ;A-4409-769-A | MOUNTED PCB, MAIN |

## ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C101 | 1-162-012-00 | CERAMIC | 8.2PF | 10% | 50V |
| C102 | 1-162-012-00 | CERAMIC | 8.2PF | 10% | 50V |
| C103 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C104 | 1-162-011-00 | CERAMIC | 6.8PF | 10% | 50V |
| C105 | 1-162-004-00 | CERAMIC | 1.8PF | 20% | 50V |
| C106 | 1-162-017-00 | CERAMIC | 15PF | 5% | 50V |
| C107 | 1-162-102-00 | CERAMIC | 220PF | 10% | 50V |
| C108 | 1-123-319-00 | ELECT | 47MF | 20% | 16V |
| C109 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C110 | 1-162-079-00 | CERAMIC | 8.2PF | 10% | 50V |
| C111 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C112 | 1-162-001-00 | CERAMIC | 1PF | 20% | 50V |
| C113 | 1-162-001-00 | CERAMIC | 1PF | 20% | 50V |
| C114 | 1-162-017-00 | CERAMIC | 15PF | 5% | 50V |
| C115 | 1-162-056-00 | CERAMIC | 33PF | 5% | 50V |
| C116 | 1-162-061-00 | CERAMIC | 5.6PF | 10% | 50V |
| C201 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C202 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C203 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C204 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C205 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C206 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C207 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C208 | 1-123-353-00 | ELECT | 2.2MF | 20% | 50V |
| C209 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C210 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C211 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C212 | 1-123-319-00 | ELECT | 47MF | 20% | 16V |
| C213 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C214 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C215 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C216 | 1-123-354-00 | ELECT | 3.3MF | 20% | 50V |
| C217 | 1-123-319-00 | ELECT | 47MF | 20% | 16V |
| C218 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C219 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C220 | 1-162-113-00 | CERAMIC | 0.01MF | 30% | 16V |
| C221 | 1-162-113-00 | CERAMIC | 0.01MF | 30% | 16V |
| C222 | 1-130-628-00 | FILM | 0.047MF | 5% | 50V |
| C223 | 1-123-353-00 | ELECT | 2.2MF | 20% | 50V |
| C224 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C225 | 1-104-077-00 | POLYSTYRENE | 0.001MF | 5% | 50V |
| C226 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C227 | 1-102-117-00 | CERAMIC | 820PF | 10% | 50V |
| C228 | 1-102-117-00 | CERAMIC | 820PF | 10% | 50V |
| C229 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



## ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C230 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C231 | 1-101-882-00 | CERAMIC | 51PF | 5% | 50V |
| C232 | 1-101-882-00 | CERAMIC | 51PF | 5% | 50V |
| C233 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C234 | 1-162-113-00 | CERAMIC | 0.01MF | 30% | 16V |
| C235 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C236 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C237 | 1-162-113-00 | CERAMIC | 0.01MF | 30% | 16V |
| C238 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C239 | 1-162-102-00 | CERAMIC | 220PF | 10% | 50V |
| C240 | 1-162-102-00 | CERAMIC | 220PF | 10% | 50V |
| C241 | 1-101-005-00 | CERAMIC | 0.022MF | 10% | 50V |
| C242 | 1-101-005-00 | CERAMIC | 0.022MF | 10% | 50V |
| C301 | 1-123-611-00 | ELECT | 1MF | 20% | 50V |
| C302 | 1-123-611-00 | ELECT | 1MF | 20% | 50V |
| C303 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C304 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C306 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C307 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C308 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C309 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C401 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C402 | 1-162-019-00 | CERAMIC | 18PF | 5% | 50V |
| C403 | 1-102-824-00 | CERAMIC | 470PF | 5% | 50V |
| C404 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C405 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C406 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C407 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C408 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C409 | 1-162-111-00 | CERAMIC | 0.0022MF | 30% | 25V |
| C410 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C411 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C412 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V |
| C413 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C414 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C415 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C416 | 1-123-319-00 | ELECT | 47MF | 20% | 16V |
| C417 | 1-162-110-00 | CERAMIC | 0.001MF | 10% | 50V |
| C418 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C419 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C420 | 1-130-624-00 | FILM | 0.022MF | 5% | 50V |
| C501 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C502 | 1-123-354-00 | ELECT | 3.3MF | 20% | 50V |
| C503 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C505 | 1-130-623-00 | FILM | 0.018MF | 5% | 50V |

## ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C506 | 1-108-571-00 | MYLAR | 0.0047MF | 5% | 50V |
| C507 | 1-123-354-00 | ELECT | 3.3MF | 20% | 50V |
| C508 | 1-123-474-00 | ELECT | 100MF | 20% | 10V |
| C510 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C511 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C512 | 1-101-002-00 | CERAMIC | 0.0022MF | | 50V |
| C513 | 1-101-002-00 | CERAMIC | 0.0022MF | | 50V |
| C516 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C517 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C518 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C519 | 1-123-351-00 | ELECT | 0.47MF | 20% | 50V |
| C520 | 1-123-354-00 | ELECT | 3.3MF | 20% | 50V |
| C521 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C522 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C551 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C552 | 1-123-354-00 | ELECT | 3.3MF | 20% | 50V |
| C553 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C555 | 1-130-623-00 | FILM | 0.018MF | 5% | 50V |
| C556 | 1-108-571-00 | MYLAR | 0.0047MF | 5% | 50V |
| C557 | 1-123-354-00 | ELECT | 3.3MF | 20% | 50V |
| C558 | 1-123-474-00 | ELECT | 100MF | 20% | 10V |
| C601 | 1-162-105-00 | CERAMIC | 390PF | 10% | 50V |
| C602 | 1-130-632-00 | FILM | 0.1MF | 5% | 50V |
| C603 | 1-123-353-00 | ELECT | 2.2MF | 20% | 50V |
| C605 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C606 | 1-123-307-00 | ELECT | 100MF | 20% | 10V |
| C607 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C608 | 1-162-013-00 | CERAMIC | 10PF | 5% | 50V |
| C609 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C610 | 1-130-622-00 | FILM | 0.015MF | 5% | 50V |
| C611 | 1-130-628-00 | FILM | 0.047MF | 5% | 50V |
| C612 | 1-130-628-00 | FILM | 0.047MF | 5% | 50V |
| C613 | 1-130-635-00 | FILM | 0.18MF | 5% | 50V |
| C651 | 1-162-105-00 | CERAMIC | 390PF | 10% | 50V |
| C652 | 1-130-632-00 | FILM | 0.1MF | 5% | 50V |
| C653 | 1-123-353-00 | ELECT | 2.2MF | 20% | 50V |
| C655 | 1-162-037-00 | CERAMIC | 100PF | 5% | 50V |
| C656 | 1-123-307-00 | ELECT | 100MF | 20% | 10V |
| C657 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C658 | 1-162-013-00 | CERAMIC | 10PF | 5% | 50V |
| C659 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C660 | 1-130-622-00 | FILM | 0.015MF | 5% | 50V |
| C661 | 1-130-628-00 | FILM | 0.047MF | 5% | 50V |
| C662 | 1-130-628-00 | FILM | 0.047MF | 5% | 50V |
| C663 | 1-130-635-00 | FILM | 0.18MF | 5% | 50V |

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C701 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V |
| C702 | 1-1n2-102-00 | CERAMIC | 220PF | 10% | 50V |
| C703 | 1-123-307-00 | ELECT | 100MF | 20% | 10V |
| C705 | 1-162-010-00 | CERAMIC | 5.6PF | 10% | 50V |
| C706 ⚠ | 1-123-228-00 | ELECT | 1MF | 20% | 50V |
| C707 | 1-102-816-00 | CERAMIC | 120PF | 5% | 50V |
| C708 ⚠ | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C709 | 1-102-816-00 | CERAMIC | 120PF | 5% | 50V |
| C710 | 1-130-626-00 | FILM | 0.033MF | 5% | 50V |
| C711 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C712 | 1-123-512-00 | ELECT | 47MF | 20% | 35V |
| C714 | 1-123-353-00 | ELECT | 2.2MF | 20% | 50V |
| C715 | 1-123-298-00 | ELECT | 470MF | 20% | 6.3V |
| C716 | 1-123-319-00 | ELECT | 47MF | 20% | 16V |
| C717 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C723 ⚠ | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C730 ⚠ | 1-123-380-00 | ELECT | 1MF | 20% | 100V |
| C751 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V |
| C752 | 1-162-102-00 | CERAMIC | 220PF | 10% | 50V |
| C753 | 1-123-307-00 | ELECT | 100MF | 20% | 10V |
| C755 | 1-162-010-00 | CERAMIC | 5.6PF | 10% | 50V |
| C756 ⚠ | 1-123-228-00 | ELECT | 1MF | 20% | 50V |
| C757 | 1-102-816-00 | CERAMIC | 120PF | 5% | 50V |
| C758 ⚠ | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C759 | 1-102-816-00 | CERAMIC | 120PF | 5% | 50V |
| C760 | 1-130-626-00 | FILM | 0.033MF | 5% | 50V |
| C780 ⚠ | 1-123-380-00 | ELECT | 1MF | 20% | 100V |
| C801 | 1-123-319-00 | ELECT | 47MF | 20% | 16V |
| C802 | 1-123-333-00 | ELECT | 100MF | 20% | 25V |
| C803 | 1-123-359-00 | ELECT | 47MF | 20% | 35V |
| C804 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C805 ⚠ | 1-123-333-00 | ELECT | 100MF | 20% | 25V |
| C807 ⚠ | 1-123-513-00 | ELECT | 100MF | 20% | 50V |
| C808 ⚠ | 1-124-030-00 | ELECT | 6800MF | 20% | 42V |
| C809 ⚠ | 1-124-030-00 | ELECT | 6800MF | 20% | 42V |
| C901 ⚠ | 1-161-749-00 | CAP, CERAMIC | 10000PF | | |
| CF201 | 1-527-307-XX | FILTER, CERAMIC | | | |
| CF202 | 1-527-307-XX | FILTER, CERAMIC | | | |
| CF401 | 1-527-599-00 | FILTER, MECHANICAL | | | |
| CNJ901 ⚠ | 1-561-161-00 | OUTLET, AC | | | |
| CNJ903 | 1-507-869-00 | JACK, LARGE TYPE | | | |
| CP801 | 1-102-394-00 | CERAMIC | | 250V | |
| CP802 | 1-102-394-00 | CERAMIC | | 250V | |
| CP803 | 1-102-394-00 | CERAMIC | | 250V | |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---|---|---|
| CT401 | 1-141-180-00 | CAP, TRIMMER 15P |
| CT402 | 1-141-180-00 | CAP, TRIMMER 15P |
| D101 | 8-719-902-11 | DIODE SVC211SP |
| D102 | 8-719-902-11 | DIODE SVC211SP |
| D103 | 8-719-902-11 | DIODE SVC211SP |
| D201 | 8-719-912-27 | DIODE KV1226 |
| D202 | 8-719-912-00 | DIODE MV12N |
| D301 | 8-719-815-55 | DIODE 1S1555 |
| D302 | 8-719-815-55 | DIODE 1S1555 |
| D303 | 8-719-815-55 | DIODE 1S1555 |
| D304 | 8-719-815-55 | DIODE 1S1555 |
| D305 | 8-719-815-55 | DIODE 1S1555 |
| D306 | 8-719-815-55 | DIODE 1S1555 |
| D307 | 8-719-815-55 | DIODE 1S1555 |
| D308 | 8-719-815-55 | DIODE 1S1555 |
| D309 | 8-719-815-55 | DIODE 1S1555 |
| D310 | 8-719-931-21 | DIODE EQA01-21 |
| D311 | 8-719-909-18 | DIODE GL9PR9 |
| D402 | 8-719-815-55 | DIODE 1S1555 |
| D403 | 8-719-912-00 | DIODE MV12N |
| D501 | 8-719-910-92 | DIODE HZ9A2L |
| D502 | 8-719-910-92 | DIODE HZ9A2L |
| D503 | 8-719-906-58 | DIODE GL5HD21 |
| D504 | 8-719-907-95 | DIODE GL5PG523 |
| D507 | 8-719-815-55 | DIODE 1S1555 |
| D508 | 8-719-815-55 | DIODE 1S1555 |
| D509 | 8-719-815-55 | DIODE 1S1555 |
| D510 | 8-719-815-55 | DIODE 1S1555 |
| D511 | 8-719-815-55 | DIODE 1S1555 |
| D701 | 8-719-815-55 | DIODE 1S1555 |
| D702 | 8-719-815-55 | DIODE 1S1555 |
| D703 | 8-719-815-55 | DIODE 1S1555 |
| D704 | 8-719-815-55 | DIODE 1S1555 |
| D801 | 8-719-910-75 | DIODE HZ7B2L |
| D802 | 8-719-931-16 | DIODE EQB01-16 |
| D803 | 8-719-922-71 | DIODE HZ27-1L |
| D804 | 8-719-931-21 | DIODE EQA01-21 |
| D805 | 8-719-931-16 | DIODE EQB01-16 |
| D806 | 8-719-504-00 | DIODE S4VB40 |
| D807 | 8-719-200-02 | DIODE 10E2 |
| D908 | 8-719-200-02 | DIODE 10E2 |
| F901 ⚠ | 1-532-348-00 | FUSE |
| FIP301 | 1-519-297-00 | INDICATOR TUBE, FLUORESCENT |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---|---|---|
| IC201 | 8-759-812-35 | IC LA1235 |
| IC202 | 8-759-833-90 | IC LA3390 |
| IC203 | 8-759-617-78 | IC CX778A |
| IC301 | 8-759-201-73 | IC TMP47C21P-3105 |
| IC401 | 8-759-812-45 | IC LA1245 |
| IC501 | 8-759-600-02 | IC M5218L |
| IC502 | 8-759-800-33 | IC LC7815H |
| IC503 | 8-759-307-00 | IC CX770A |
| IC504 | 8-759-307-00 | IC CX770A |
| IC505 | 8-759-307-00 | IC CX770A |
| IC601 | 8-759-600-02 | IC M5218L |
| IC701 ⚠ | 8-749-930-41 | IC STK3041 |
| IC702 ⚠ | 8-749-921-29 | IC STK2129 |
| IFT101 ♦ | 1-404-363-00 | TRANSFORMER, IF |
| J501 | 1-507-788-00 | JACK, PIN 4P |
| J502 | 1-507-788-00 | JACK, PIN 4P |
| J503 | 1-507-788-00 | JACK, PIN 4P |
| J504 | 1-507-788-00 | JACK, PIN 4P |
| J507 | 1-507-769-00 | JACK, PIN 6P |
| J508 | 1-507-769-00 | JACK, PIN 6P |
| J509 | 1-507-769-00 | JACK, PIN 6P |
| J510 | 1-507-888-00 | JACK, PIN 2P |
| J511 | 1-507-888-00 | JACK, PIN 2P |
| J512 | 1-507-888-00 | JACK, PIN 2P |
| J513 | 1-507-888-00 | JACK, PIN 2P |
| J551 | 1-507-788-00 | JACK, PIN 4P |
| J552 | 1-507-788-00 | JACK, PIN 4P |
| J553 | 1-507-788-00 | JACK, PIN 4P |
| J554 | 1-507-788-00 | JACK, PIN 4P |
| J557 | 1-507-769-00 | JACK, PIN 6P |
| J558 | 1-507-769-00 | JACK, PIN 6P |
| J559 | 1-507-769-00 | JACK, PIN 6P |
| L101 ♦ | 1-422-078-00 | COIL, AIR-CORE |
| L102 ♦ | 1-422-080-00 | COIL (WITH CORE) |
| L103 ♦ | 1-422-077-00 | COIL, AIR-CORE |
| L104 ♦ | 1-422-081-00 | COIL (WITH CORE) |
| L105 ♦ | 1-459-396-00 | COIL (WITH CORE) |
| L106 ♦ | 1-422-039-00 | COIL, AIR-CORE |
| L201 | 1-408-575-21 | MICRO INDUCTOR 100UH |
| L301 | 1-408-185-00 | MICRO INDUCTOR 15UH |
| L401 | 1-408-202-00 | MICRO INDUCTOR 390UH |
| L402 | 1-408-195-00 | MICRO INDUCTOR 100UH |
| L701 ♦ | 1-420-872-00 | COIL, AIR CORE |
| L751 ♦ | 1-420-872-00 | COIL, AIR CORE |
| L901 | 1-401-887-41 | ANTENNE, FERRITE-ROD (MW) |
| PT901 ⚠ | 1-447-302-00 | TRANSFORMER, POWER |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| Q101 | 8-729-200-55 | TRANSISTOR 2SK241-Y | | | |
| Q102 | 8-729-353-52 | TRANSISTOR 2SC535 | | | |
| Q103 | 8-729-671-13 | TRANSISTOR 2SC710-13 | | | |
| Q104 | 8-729-671-13 | TRANSISTOR 2SC710-13 | | | |
| Q201 | 8-729-671-13 | TRANSISTOR 2SC710-13 | | | |
| Q202 | 8-729-671-13 | TRANSISTOR 2SC710-13 | | | |
| Q203 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q204 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q205 | 8-729-665-47 | TRANSISTOR 2SC1362 | | | |
| Q206 | 8-729-203-04 | TRANSISTOR 2SK30A | | | |
| Q401 | 8-729-204-82 | TRANSISTOR 2SA1048 | | | |
| Q402 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q701 ⚠ | 8-729-204-82 | TRANSISTOR 2SA1048 | | | |
| Q702 ⚠ | 8-729-281-53 | TRANSISTOR 2SC1815-GR | | | |
| Q703 ⚠ | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q704 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q705 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q706 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q707 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q752 | 8-729-281-53 | TRANSISTOR 2SC1815-GR | | | |
| Q801 | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q802 | 8-729-288-02 | TRANSISTOR 2SD880 | | | |
| Q803 ⚠ | 8-729-245-83 | TRANSISTOR 2SC2458 | | | |
| Q804 | 8-729-203-04 | TRANSISTOR 2SK30A | | | |
| Q805 | 8-729-103-43 | TRANSISTOR 2SB734 | | | |
| Q806 | 8-729-204-82 | TRANSISTOR 2SA1048 | | | |
| R101 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R102 | 1-247-871-00 | CARBON | 47K | 5% | 1/6W |
| R103 | 1-247-799-00 | CARBON | 47 | 5% | 1/6W |
| R104 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W |
| R105 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R106 | 1-247-901-00 | CARBON | 820K | 5% | 1/6W |
| R107 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W |
| R108 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W |
| R109 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W |
| R110 | 1-247-841-00 | CARBON | 2.7K | 5% | 1/6W |
| R111 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W |
| R112 | 1-247-893-00 | CARBON | 390K | 5% | 1/6W |
| R113 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W |
| R114 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W |
| R115 | 1-247-801-00 | CARBON | 56 | 5% | 1/6W |
| R116 ⚠ | 1-247-109-00 | CARBON | 120 | 5% | 1/4W F |
| R201 | 1-244-945-00 | CARBON | 1M | 5% | 1/2W |
| R202 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R203 | 1-247-889-00 | CARBON | 270K | 5% | 1/6W |

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- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
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- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

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- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
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UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | |
|---|---|---|---|---|---|---|
| R204 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R205 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W | |
| R206 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R207 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R208 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W | |
| R209 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R210 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W | |
| R211 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R212 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R213 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R214 ⚠ | 1-247-109-00 | CARBON | 120 | 5% | 1/4W | F |
| R215 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R216 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R217 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R218 | 1-247-840-00 | CARBON | 2.4K | 5% | 1/6W | |
| R219 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R220 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R221 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R222 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R223 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W | |
| R224 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R225 ⚠ | 1-247-109-00 | CARBON | 120 | 5% | 1/4W | F |
| R226 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R227 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R228 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R229 | 1-247-783-00 | CARBON | 10 | 5% | 1/6W | |
| R230 | 1-247-783-00 | CARBON | 10 | 5% | 1/6W | |
| R231 | 1-247-825-00 | CARBON | 560 | 5% | 1/6W | |
| R232 | 1-247-857-00 | CARBON | 12K | 5% | 1/6W | |
| R233 | 1-246-465-00 | CARBON | 470 | 5% | 1/4W | |
| R234 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R235 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R236 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R238 | 1-247-877-00 | CARBON | 82K | 5% | 1/6W | |
| R239 | 1-247-877-00 | CARBON | 82K | 5% | 1/6W | |
| R240 | 1-247-851-00 | CARBON | 6.8K | 5% | 1/6W | |
| R241 | 1-247-851-00 | CARBON | 6.8K | 5% | 1/6W | |
| R242 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R243 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R244 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R245 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R246 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R247 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R248 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R249 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R250 | 1-247-893-00 | CARBON | 390K | 5% | 1/6W | |
| R251 | 1-247-847-00 | CARBON | 4.7K | 5% | 1/6W | |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | |
|---|---|---|---|---|---|---|
| R252 | 1-247-851-00 | CARBON | 6.8K | 5% | 1/6W | |
| R254 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R257 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R258 | 1-246-493-00 | CARBON | 6.8K | 5% | 1/4W | |
| R259 | 1-247-871-00 | CARBON | 47K | 5% | 1/6W | |
| R301 | 1-244-857-00 | CARBON | 220 | 5% | 1/2W | |
| R302 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R303 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R304 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R305 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R306 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R307 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R308 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R309 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R310 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R311 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R312 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R313 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R314 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R315 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R316 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R317 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R318 ⚠ | 1-213-138-00 | METAL OXIDE | 390 | 5% | 1W | F |
| R319 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R320 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | |
| R321 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R322 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R324 | 1-247-824-00 | CARBON | 510 | 5% | 1/6W | |
| R401 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W | |
| R402 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R403 | 1-247-839-00 | CARBON | 2.2K | 5% | 1/6W | |
| R404 ⚠ | 1-247-115-00 | CARBON | 220 | 5% | 1/4W | F |
| R405 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R406 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R407 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R409 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R410 ⚠ | 1-247-109-00 | CARBON | 120 | 5% | 1/4W | F |
| R412 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R413 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R414 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R415 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R416 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R501 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W | |
| R502 | 1-247-871-00 | CARBON | 47K | 5% | 1/6W | |
| R503 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W | |
| R504 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W | |

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MF:μF, PF:μμF.

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In each case, U : μ, for example:
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| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R505 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W |
| R506 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R507 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R508 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R513 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R514 | 1-247-817-00 | CARBON | 270 | 5% | 1/6W |
| R515 | 1-247-885-00 | CARBON | 180K | 5% | 1/6W |
| R516 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W |
| R517 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R518 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W |
| R519 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R520 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R523 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R524 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R525 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R526 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R527 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R528 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R530 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R531 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R532 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R533 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R534 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R535 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R536 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R537 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R538 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R539 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R540 | 1-246-471-00 | CARBON | 820 | 5% | 1/4W |
| R541 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W |
| R542 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W |
| R543 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R544 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R545 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R546 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R551 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W |
| R552 | 1-247-871-00 | CARBON | 47K | 5% | 1/6W |
| R553 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R554 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R555 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W |
| R556 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R557 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R558 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R563 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R564 | 1-247-817-00 | CARBON | 270 | 5% | 1/6W |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R565 | 1-247-885-00 | CARBON | 180K | 5% | 1/6W |
| R566 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W |
| R567 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R568 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W |
| R569 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R570 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R575 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W |
| R576 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W |
| R580 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R581 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R582 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R583 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R584 | 1-247-835-00 | CARBON | 1.5K | 5% | 1/6W |
| R585 | 1-247-897-00 | CARBON | 560K | 5% | 1/6W |
| R586 | 1-246-475-00 | CARBON | 1.2K | 5% | 1/4W |
| R587 | 1-246-475-00 | CARBON | 1.2K | 5% | 1/4W |
| R601 | 1-247-839-00 | CARBON | 2.2K | 5% | 1/6W |
| R602 | 1-247-903-00 | CARBON | 1M | 5% | 1/6W |
| R603 | 1-247-865-00 | CARBON | 27K | 5% | 1/6W |
| R604 | 1-247-850-00 | CARBON | 6.2K | 5% | 1/6W |
| R605 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R606 | 1-247-825-00 | CARBON | 560 | 5% | 1/6W |
| R607 | 1-247-848-00 | CARBON | 5.1K | 5% | 1/6W |
| R608 | 1-247-822-00 | CARBON | 430 | 5% | 1/6W |
| R609 | 1-246-463-00 | CARBON | 390 | 5% | 1/4W |
| R610 | 1-246-493-00 | CARBON | 6.8K | 5% | 1/4W |
| R611 | 1-246-478-00 | CARBON | 1.6K | 5% | 1/4W |
| R612 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W |
| R651 | 1-247-839-00 | CARBON | 2.2K | 5% | 1/6W |
| R652 | 1-247-903-00 | CARBON | 1M | 5% | 1/6W |
| R653 | 1-247-865-00 | CARBON | 27K | 5% | 1/6W |
| R654 | 1-247-850-00 | CARBON | 6.2K | 5% | 1/6W |
| R655 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| R656 | 1-247-825-00 | CARBON | 560 | 5% | 1/6W |
| R657 | 1-247-848-00 | CARBON | 5.1K | 5% | 1/6W |
| R658 | 1-246-464-00 | CARBON | 430 | 5% | 1/4W |
| R659 | 1-246-463-00 | CARBON | 390 | 5% | 1/4W |
| R660 | 1-246-493-00 | CARBON | 6.8K | 5% | 1/4W |
| R661 | 1-246-478-00 | CARBON | 1.6K | 5% | 1/4W |
| R662 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W |
| R701 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W |
| R702 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W |
| R703 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W |
| R704 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W |
| R705 ⚠ | 1-247-107-00 | CARBON | 100 | 5% | 1/4W F |

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ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | |
|---|---|---|---|---|---|---|
| R706 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W | |
| R707 ⚠ | 1-247-115-00 | CARBON | 220 | 5% | 1/4W | F |
| R708 ⚠ | 1-247-192-00 | CARBON | 10 | 5% | 1/2W | F |
| R709 | 1-244-817-00 | CARBON | 4.7 | 5% | 1/2W | |
| R710 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R712 ⚠ | 1-247-101-00 | CARBON | 56 | 5% | 1/4W | F |
| R714 | 1-246-507-00 | CARBON | 27K | 5% | 1/4W | |
| R715 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R716 | 1-247-851-00 | CARBON | 6.8K | 5% | 1/6W | |
| R717 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W | |
| R718 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R719 ⚠ | 1-244-861-00 | CARBON | 330 | 5% | 1/2W | |
| R720 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R726 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R728 | 1-244-861-00 | CARBON | 330 | 5% | 1/2W | |
| R731 ⚠ | 1-247-091-00 | CARBON | 22 | 5% | 1/4W | F |
| R751 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R752 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W | |
| R753 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R754 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W | |
| R755 ⚠ | 1-247-107-00 | CARBON | 100 | 5% | 1/4W | F |
| R756 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W | |
| R757 ⚠ | 1-247-115-00 | CARBON | 220 | 5% | 1/4W | F |
| R758 ⚠ | 1-247-192-00 | CARBON | 10 | 5% | 1/2W | F |
| R759 | 1-244-817-00 | CARBON | 4.7 | 5% | 1/2W | |
| R776 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| R778 | 1-244-861-00 | CARBON | 330 | 5% | 1/2W | |
| R779 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W | |
| R780 | 1-247-855-00 | CARBON | 10K | 5% | 1/6W | |
| R781 | 1-202-725-00 | SOLID | 3.3M | 10% | 1/2W | |
| R801 ⚠ | 1-247-222-00 | CARBON | 180 | 5% | 1/2W | F |
| R802 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | |
| R805 ⚠ | 1-206-472-00 | METAL OXIDE | 24 | 5% | 2W | F |
| R806 | 1-246-491-00 | CARBON | 5.6K | 5% | 1/4W | |
| R807 | 1-246-491-00 | CARBON | 5.6K | 5% | 1/4W | |
| R808 ⚠ | 1-247-234-00 | CARBON | 560 | 5% | 1/2W | F |
| R809 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | |
| R810 ⚠ | 1-212-987-00 | FUSIBLE | 160 | 5% | 1/2W | F |
| R811 ⚠ | 1-247-200-00 | CARBON | 22 | 5% | 1/2W | F |
| R813 ⚠ | 1-206-672-00 | METAL OXIDE | 2.2K | 5% | 2W | F |
| R814 ⚠ | 1-247-079-00 | CARBON | 4.7 | 5% | 1/4W | F |
| R815 ⚠ | 1-247-079-00 | CARBON | 4.7 | 5% | 1/4W | F |
| R901 ⚠ | 1-202-725-00 | SOLID | 3.3M | 10% | 1/2W | |
| RT201 | 1-226-236-00 | RES, ADJ, CARBON 10K | | | | |
| RT202 | 1-226-236-00 | RES, ADJ, CARBON 10K | | | | |
| RT203 | 1-226-238-00 | RES, ADJ, CARBON 50K | | | | |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---|---|---|
| RV601 | 1-228-613-00 | RES, VAR, CARBON 100K/100K, VOLUME/L |
| RV602 | 1-230-141-00 | RES, VAR, SLIDE 250K, BALANCE |
| RV603 | 1-230-140-00 | RES, VAR, SLIDE 20K/20K, TREBLE/L |
| RV604 | 1-230-140-00 | RES, VAR, SLIDE 20K/20K, BASS/L |
| RV651 | 1-228-613-00 | RES, VAR, CARBON 100K/100K, VOLUME/R |
| RV653 | 1-230-140-00 | RES, VAR, SLIDE 20K/20K, TREBLE/R |
| RV654 | 1-230-140-00 | RES, VAR, SLIDE 20K/20K, BASS/R |
| RY501 | 1-515-495-00 | RELAY |
| RY701 | 1-515-503-00 | RELAY |
| S301 | 1-552-370-00 | SWITCH, SLIDE, 9K/10K |
| S302 | 1-552-412-00 | SWITCH, KEY BOARD, 1 |
| S303 | 1-552-412-00 | SWITCH, KEY BOARD, 2 |
| S304 | 1-552-412-00 | SWITCH, KEY BOARD, 3 |
| S305 | 1-552-412-00 | SWITCH, KEY BOARD, 4 |
| S306 | 1-552-412-00 | SWITCH, KEY BOARD, 5 |
| S307 | 1-552-412-00 | SWITCH, KEY BOARD, 6 |
| S308 | 1-552-412-00 | SWITCH, KEY BOARD, 7 |
| S309 | 1-552-412-00 | SWITCH, KEY BOARD, 8 |
| S310 | 1-552-412-00 | SWITCH, KEY BOARD, 9 |
| S311 | 1-552-412-00 | SWITCH, KEY BOARD, 0 |
| S312 | 1-552-412-00 | SWITCH, KEY BOARD, MEMORY SCAN |
| S313 | 1-552-412-00 | SWITCH, KEY BOARD, MEMORY |
| S314 | 1-552-412-00 | SWITCH, KEY BOARD, TUNING/+ |
| S315 | 1-552-412-00 | SWITCH, KEY BOARD, TUNING/- |
| S316 | 1-552-412-00 | SWITCH, KEY BOARD, FM |
| S317 | 1-552-412-00 | SWITCH, KEY BOARD, AM |
| S318 | 1-552-412-00 | SWITCH, KEY BOARD, FM MODE |
| S501 | 1-554-573-00 | SWITCH, PUSH (1 KEY), VIDEO |
| S502 | 1-554-573-00 | SWITCH, PUSH (1 KEY), AUDIO DUBBING |
| S503 | 1-554-559-00 | SWITCH, PUSH (1 KEY), TAPE MONITOR |
| S505 | 1-552-412-00 | SWITCH, KEY BOARD, PHONO |
| S506 | 1-552-412-00 | SWITCH, KEY BOARD, AUX |
| S507 | 1-552-412-00 | SWITCH, KEY BOARD, TUNER |
| S508 | 1-552-412-00 | SWITCH, KEY BOARD, VIDEO |
| S601 | 1-553-975-00 | SWITCH, PUSH (1 KEY), LOUNDNESS |
| S701 | 1-553-687-00 | SWITCH, PUSH (2 KEY), SPEAKER |
| S901 ⚠ | 1-553-319-00 | SWITCH, PUSH (AC POWER), POWER |
| T201 | 1-404-339-00 | TRANSFORMER, DISCRIMINATOR |
| T202 | 1-404-338-00 | TRANSFORMER,DISCRIMINATOR (FM) |
| T401 | 1-405-927-00 | COIL, MW OSC |
| T402 | 1-409-348-00 | COIL, MECHANICAL FILTER |
| TM101 | 1-536-708-00 | TERMINAL BOARD, PUSH 4P, ANTENNA |
| TM903 | 1-536-706-00 | TERMINAL BOARD (SP), SPEAKER |
| X201 | 1-527-731-00 | OSCILLATOR, CRYSTAL |
| X301 | 1-527-822-00 | OSCILLATOR, CERAMIC |

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Sony Corporation

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